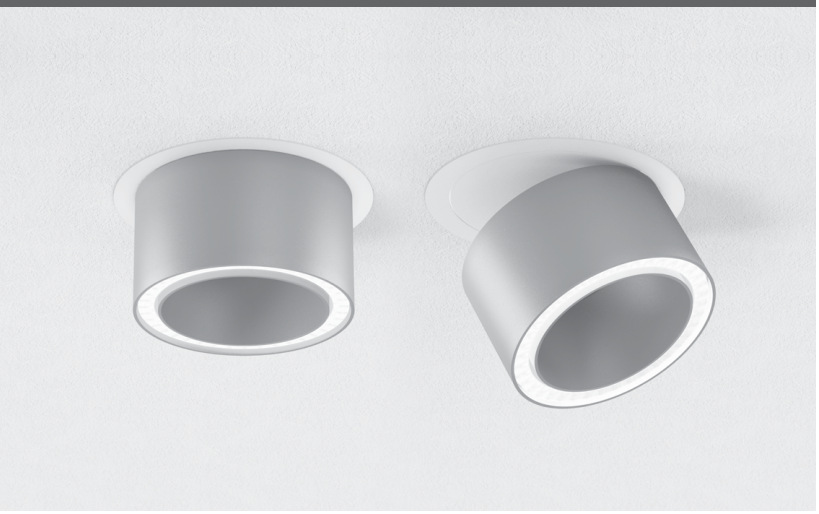
FLUXWERX



SPECIFICATION DATA

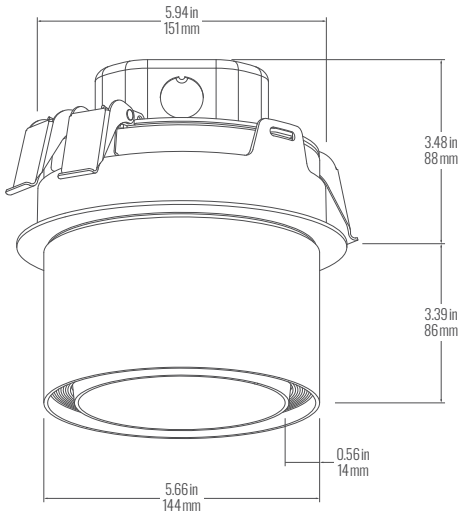
PORTAL SEMI-RECESSED 5.5" (TC1-H05, TC1-J05)

CATALOG #

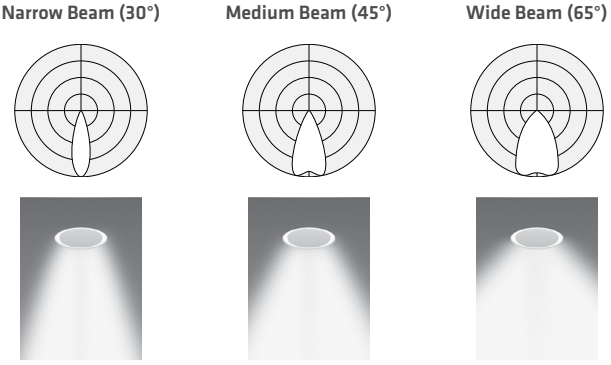
PROJECT

NOTES

DIMENSIONS



BEAM ANGLES



PERFORMANCE FOCUS

5.5" Medium Beam, 80 CRI 4000 K

	Energy (W)	Light (lm)	Efficacy (lm/W)	Certified
A	**9 W**	1300	138	ENERGY STAR TITLE 24 JA8 (90 CRI)
B	**12 W**	1750	139	
C	**16 W**	2350	142	
D	**21 W**	3000	137	

Color Matching (SDCM)	Lumen Maintenance (hr) L80 per TM21	L70 Estimate
< 2	> 72,000	> 130,000

Nominal values, refer to back pages for full performance data.

FEATURES

- Portal reimagines directional and general area illumination. Proprietary optics deliver exceptional lighting control from a minimalist aesthetic.
- To support your design vision, both 5.5" & 9" sizes are available in six mounting variants – Recessed, Semi-Recessed, Semi-Recessed Adjustable, Surface, Surface Adjustable & Pendant.
- Light outputs range from 1200 lm (5.5") to 4100 lm (9") with efficacies exceeding 150 lm/W.
- Flexible lighting schemes are enabled by beam angles of 30°, 45° & 65°, as well as 20|80 and 50|50 direct/indirect pendant distributions.
- White, Metallic Silver & Black powdercoat finishes (plus RAL colors) can be combined to augment the ceiling design.
- 80 and 90 CRI LEDs are available in four CCTs – 2700 K, 3000 K, 3500 K, 4000 K.

Declare. ENERGY STAR TITLE 24 JA8 UL CERTIFIED 5 YEAR WARRANTY

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SPECIFICATION DATA

PORTAL SEMI-RECESSED 5.5" (TC1-H05, TC1-J05)

ORDER GUIDE

1	2	3	4	5	6	7	8	9	10	11	12	OPTIONS	CONTROLS
TC1	–	05											

1 FAMILY		2 VERSION	3 SIZE	4 CEILING TYPE	5 TRIM
TC1	Portal –	**H** Semi-Recessed **J** Semi-Recessed Adjustable	▸ **05** 5.5" **09** 9"	**D** Drywall **G** Grid **R** Remote Driver	**K1** Trim Flange **K2** Drywall Trimless

6 FINISH		7 BEAM SPREAD	8 CRI	9 CCT	10 ENERGY [2]
FIXTURE FINISH **B** Black Powdercoat **S** Metallic Silver Powdercoat **W** White Powdercoat **C** Custom Color (RAL)	**CANOPY / TRIM FINISH** [1] **B** Black Powdercoat **S** Metallic Silver Powdercoat **W** White Powdercoat **C** Custom Color (RAL)	**N1** Narrow (30°) **M1** Medium (45°) **W1** Wide (65°)	**8** 80 CRI **9** 90 CRI	**27** 2700 K **30** 3000 K **35** 3500 K **40** 4000 K	**A** 9 W **B** 12 W **C** 16 W **D** 21 W
	[1] Only outer trim in fixed version.				[2] Nominal input power. Add 4 W for BP and 2 W for 347 V.

11 DRIVER	12 VOLTAGE	OPTIONS	CONTROLS	
			TYPE & LOCATION [8]	BRAND & PROTOCOL [8]
F1 Non-Dim **F2** 0–10 V Dim 3% **F4** Line Voltage Dim (Fwd/Rev) 3% 120 V **E1** eldoLED ECO 0–10 V Dim 1% **E2** eldoLED SOLO 0–10 V Dim 0.1% **E3** eldoLED ECO DALI-2 DT6 Dim 1% **E4** eldoLED SOLO DALI-2 DT6 Dim 0.1% **L1** Lutron Hi-Lume 1% EcoSystem (LDE1) **L3** Lutron Hi-Lume Premier 0.1% EcoSystem (PEQ0) [3]	**M** 120–277 V **1** 120 V [4] **2** 277 V [4] **3** 347 V [5]	**B** Battery Pack [6] **C** Chicago Plenum **F** 6' Flex Whip **H** Emergency Switch (GTD) [7]	**R** Remote Sensor / Controller on Ceiling **V** Controller on Driver / Plenum Side	**N1** Acuity nLight Wired [9] **N2** Acuity nLight Air rIO [9] **N3** Acuity nLight Air RPP20 [9] **E1** Enlighted Smart Sensor [10] **L1** Lutron Athena Wireless **M1** Legrand Wattstopper PLUS **V1** Leviton Intellect Wireless
[3] Max Energy C (16 W).	[4] Fixed voltage only for (F4) Line Dim Driver or nLight controls. [5] 347 V: Remote with transformer.	[6] BP & GTD: Detached & prewired with Trim (K1); Remote driver with Trimless (K2). [7] GTD not compatible with (F4) Line Dim driver.	[8] Controls selection may be limited by version, protocol or other features – see Controls page.	[9] nLight: Controller (V) only. [10] Enlighted: Sensor/Controller (R) only.

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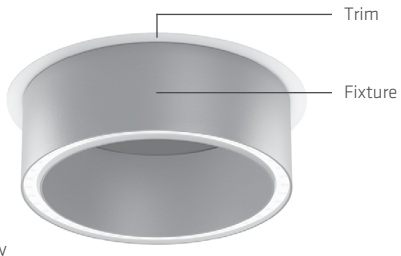
SPECIFICATION DATA

PORTAL SEMI-RECESSED 5.5" (TC1-H05, TC1-J05)

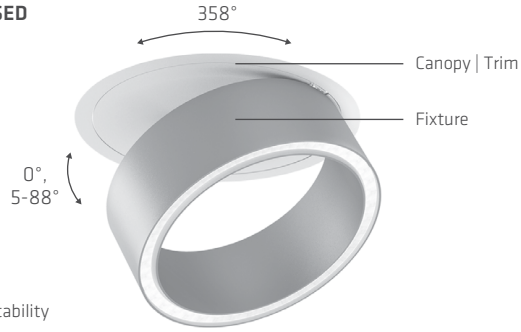
PRODUCT DETAILS

SEMI-RECESSED



Anidolic optical technology creates a homogenous circumference of light

SEMI-RECESSED ADJUSTABLE

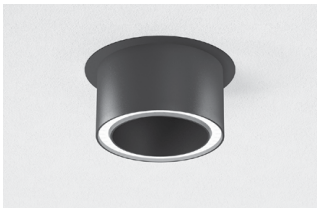


Dual-Axis Adjustability

FINISHES

All finishes high temperature powder coated. Trim housing shown.

FIXED



BLACK FIXTURE
BLACK TRIM

BLACK FIXTURE
WHITE TRIM

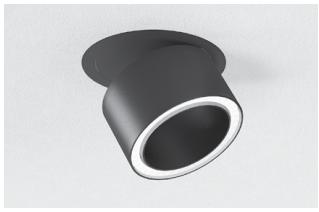
SILVER FIXTURE
SILVER TRIM

SILVER FIXTURE
WHITE TRIM

WHITE FIXTURE
WHITE TRIM

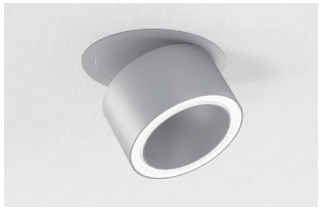
CUSTOM

ADJUSTABLE



BLACK FIXTURE
BLACK CANOPY / TRIM

BLACK FIXTURE
WHITE CANOPY / TRIM



SILVER FIXTURE
SILVER CANOPY / TRIM

SILVER FIXTURE
WHITE CANOPY / TRIM

WHITE FIXTURE
WHITE CANOPY / TRIM

CUSTOM

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SPECIFICATION DATA

PORTAL SEMI-RECESSED 5.5" (TC1-H05, TC1-J05)

CEILING INTEGRATION

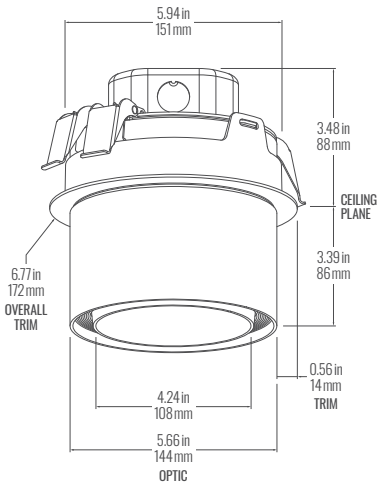
(H) SEMI-RECESSED

(K1) Trim Flange (Grid & Drywall)

Cutout diameter: 6.0" (152 mm)

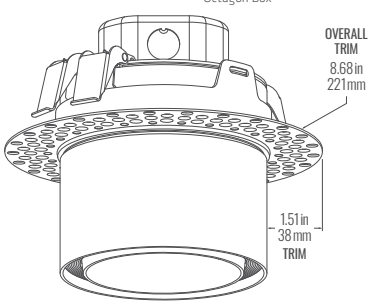
Minimum plenum clearance (from finished ceiling plane): 4.0" (102 mm)

Ceiling thickness: 0.5"-1.5" (e.g. acoustic tile, GWB, wood)



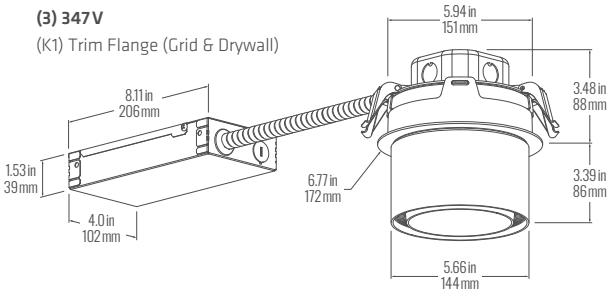
(K2) Drywall Trimless (Mud-In)

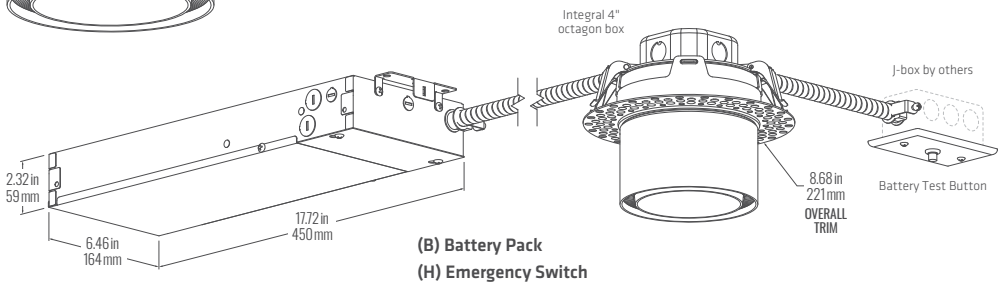
Cutout diameter:
6.0" (152 mm)



(3) 347 V

(K1) Trim Flange (Grid & Drywall)





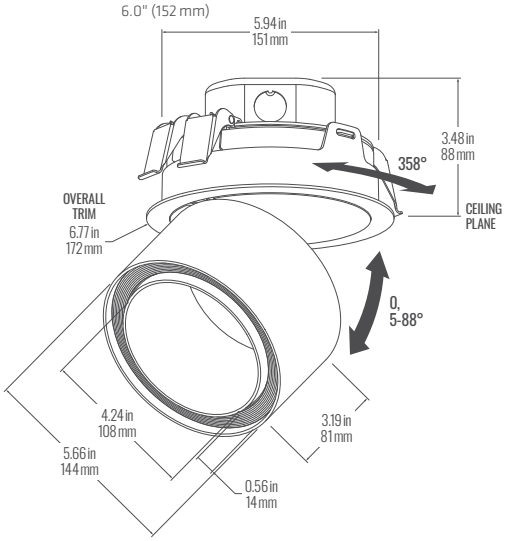
(B) Battery Pack

(H) Emergency Switch
uses larger remote driver enclosure

(J) SEMI-RECESSED ADJUSTABLE

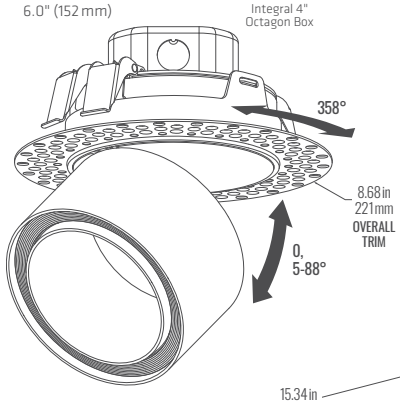
(K1) Trim Flange (Grid & Drywall)

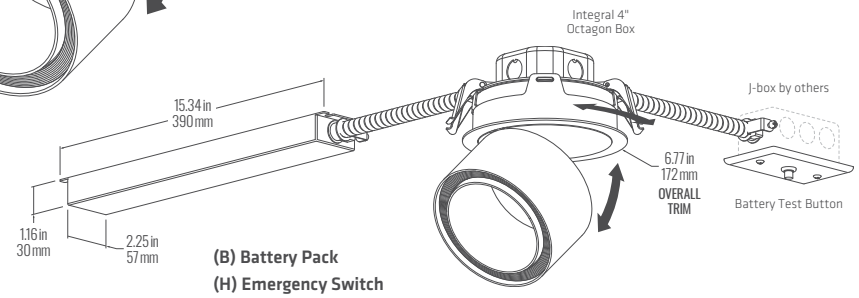
Cutout diameter:
6.0" (152 mm)



(K2) Drywall Trimless (Mud-In)

Cutout diameter:
6.0" (152 mm)





(B) Battery Pack

(H) Emergency Switch
uses larger remote driver enclosure

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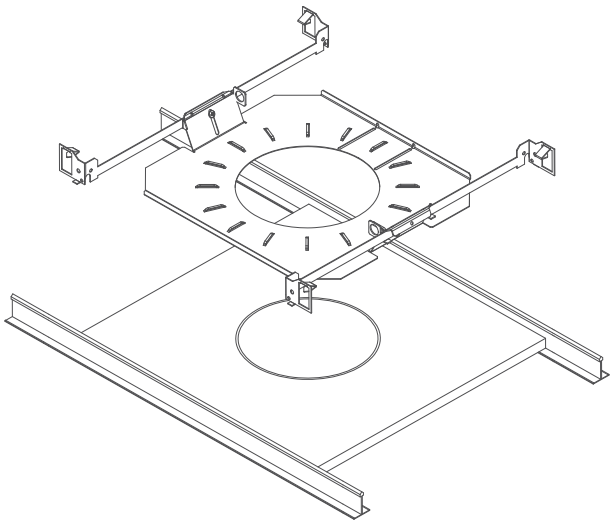
SPECIFICATION DATA

PORTAL SEMI-RECESSED 5.5" (TC1-H05, TC1-J05)

CEILING INTEGRATION – ROUGH-IN FRAME

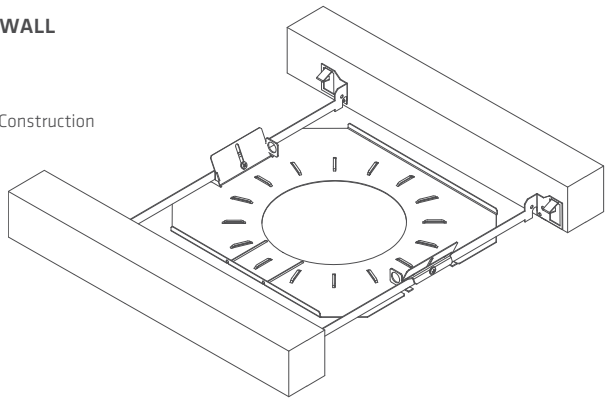
Rough-in frame included with fixture.

GRID CEILING

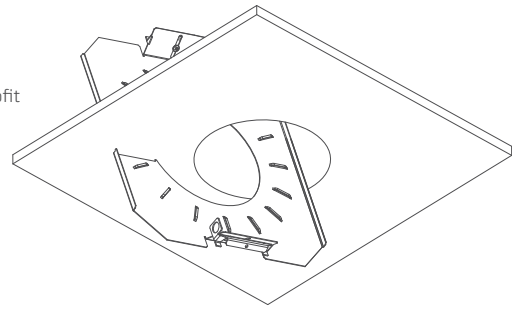


DRYWALL

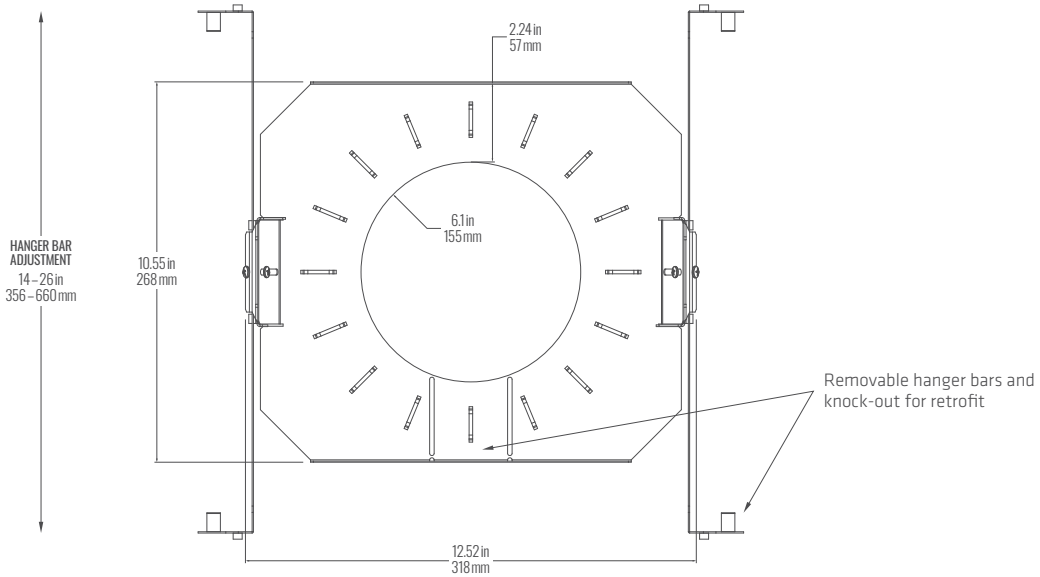
New Construction



Retrofit



FRAME DIMENSIONS



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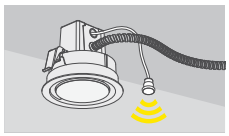
SPECIFICATION DATA

PORTAL SEMI-RECESSED 5.5" (TC1-H05, TC1-J05)

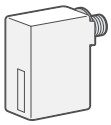
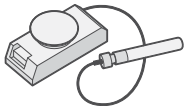
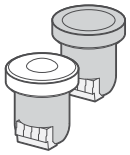
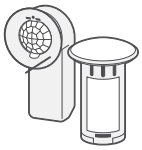
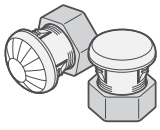
CONTROLS & SENSORS

LUMINAIRE INTEGRATION

V
Controller,
Enclosure/Plenum Side



R
Sensor,
Remote/on Ceiling

(N1)	Acuity nLight Wired	nLight wired, digital network. Model: nPS-80-EZ or nPS-80-EZ-ER (with **H** – Emergency Switching)		**VN1**	nLight Wired Controller, Remote Enclosure
(N2, N3)	Acuity nLight Air	Acuity nLight wireless network interfaces. Models: rIO, rPP20		**VN2** **VN3**	nLight rIO Controller, Remote Enclosure nLight rPP20 Controller, Remote Enclosure
(E1)	Siemens Enlighted	Siemens Enlighted wireless smart sensor-controllers. Model: SU-5E-CL		**RE1**	Enlighted Smart Sensor, Remote/on Ceiling
(L1)	Lutron Athena	Lutron Athena wireless smart controllers & sensors. Models: A-WN-D01-RF, A-WN-D01-OCC For YL1 and SL1: Default Athena color to match fixture/canopy color Canopy / Athena WH / WH SV / BK BK / BK For VL1 and RL1: default WH		**VL1** **RL1**	Athena Controller, Enclosure/Plenum Side Athena Sensor, Remote/on Ceiling
(M1)	Legrand Encelium X	Encelium X wireless smart controllers & sensors. Models: ZBHA-CLM, EN-CLM-PIR		**VM1** **RM1**	X Control Module, Enclosure/Plenum Side SensiLUM Sensor, Remote/on Ceiling
(V1)	Leviton Intellect	Leviton Intellect wireless smart controllers & sensors. Models: ZL0x0, ZL0xS		**VV1** **RV1**	Intellect Controller, Enclosure/Plenum Side Intellect Sensor, Remote/on Ceiling

Ask us about... Wattstopper® Pass & Seymour® EATON DISTECH CONTROLS CRESTRON CASAMBI

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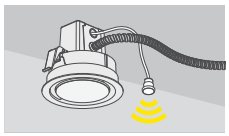
SPECIFICATION DATA

PORTAL SEMI-RECESSED 5.5" (TC1-H05, TC1-J05)

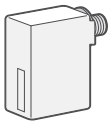
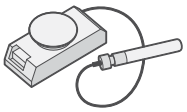
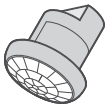
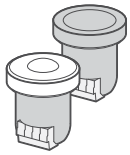
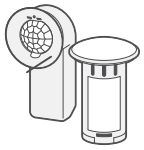
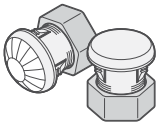
CONTROLS & SENSORS

LUMINAIRE INTEGRATION

V
Controller,
Enclosure/Plenum Side



R
Sensor,
Remote/on Ceiling

(N1)	Acuity nLight Wired	nLight wired, digital network. Model: nPS-80-EZ or nPS-80-EZ-ER (with **H** – Emergency Switching)		**VN1**	nLight Wired Controller, Remote Enclosure
(N2, N3)	Acuity nLight Air	Acuity nLight wireless network interfaces. Models: rIO, rPP20		**VN2** **VN3**	nLight rIO Controller, Remote Enclosure nLight rPP20 Controller, Remote Enclosure
(E1)	Siemens Enlighted	Siemens Enlighted wireless smart sensor-controllers. Model: SU-5E-CL		**RE1**	Enlighted Smart Sensor, Remote/on Ceiling
(L1)	Lutron Athena	Lutron Athena wireless smart controllers & sensors. Models: A-WN-D01-RF, A-WN-D01-OCC For YL1 and SL1: Default Athena color to match fixture/canopy color Canopy Athena WH WH SV BK BK BK For VL1 and RL1: default WH		**VL1** **RL1**	Athena Controller, Enclosure/Plenum Side Athena Sensor, Remote/on Ceiling
(M1)	Legrand Wattstopper PLUS	Wattstopper PLUS wireless smart controllers & sensors. Models: ZBHA-CLM, EN-CLM-PIR		**VM1** **RM1**	Wattstopper PLUS Control Module, Enclosure/Plenum Side SensiLUM Sensor, Remote/on Ceiling
(V1)	Leviton Intellect	Leviton Intellect wireless smart controllers & sensors. Models: ZL0x0, ZL0xS		**VV1** **RV1**	Intellect Controller, Enclosure/Plenum Side Intellect Sensor, Remote/on Ceiling

Ask us about... Pass & Seymour® EATON DISTECH CONTROLS CRESTRON CASAMBI

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FLUXWERX

SPECIFICATION DATA

PORTAL SEMI-RECESSED 5.5" (TC1-H05, TC1-J05)

NOTES

CONSTRUCTION

- Architectural grade aluminum and 22 ga. steel housings
- Trim flange and drywall trimless housings suitable for new build or retrofit in grid or GWB ceilings
- White, metallic silver or black textured powdercoat standard finishes

OPTICAL

- Circular anidolic optical structures
- Precision molded high transmittance clear acrylic lenses
- Long life LED system designed for typical TM21 lumen maintenance ≥ L80 @ 72,000 h
- Available in 2700 K, 3000 K, 3500 K, 4000 K with CRI ≥ 80 and R9 ≥ 0, or CRI ≥ 90 and R9 ≥ 50, all with color accurate binning ≤ 2 SDCM

ELECTRICAL

- Integral high efficiency drivers for 50–60 Hz, 120–277 V or 347 V
- Power Factor:
  > 0.87 (Drivers F1, F2, E1-E4)
  > 0.70 (Driver L1, Energy B-E)
- Total Harmonic Distortion:
  < 20 % (Drivers F1, F2, E1-E4)
- Dim level: Standard 3%, optional 1% or 0.1%
- Optional flex whip: 6' prewired
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

EMERGENCY

- Optional Battery Pack delivers 10 W Class 2 rated output for 90 min. See Family Performance for estimated emergency output
- Optional GTD (Generator Transfer Switch), 120–277 V, disables 0–10 V control during emergency for full light output

WIRE GAUGE

- Recommended low voltage wire gauge (AWG) for minimal losses over distance when REMOTE mounting:

  30 ft | 18 ga

  50 ft | 14 ga

  80 ft | 12 ga

ENVIRONMENTAL & CARE

- Designed for use in dry or damp indoor locations with ambient temperatures of 0–30° C (32–86° F)
- The luminaire may be damaged by chemicals such as chlorine, solvents, ammonia, alcohol or sulfur in the area of operation or in cleaning products. Damage from contaminants is not covered under warranty.
- Not suitable for natatorium environments, e.g. swimming pools, hot tubs and saunas.
- Clean only by wiping with a slightly water-damp, soft, clean cloth.

WEIGHT

- Maximum 7.1 lbs (3.2 kg) with driver only
- Maximum 10.6 lbs (4.8 kg) with battery pack or 347 V transformer

WARRANTY

- 5 year limited warranty on all components and workmanship

INDEPENDENT TESTING

- IESNA LM79
- IESNA LM80 (LED @ 12,000 h)

APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- IC Rated
- Energy Star
- Title 24 JA8-2019 (90 CRI versions)
- Living Building Challenge (LBC) Declared

DRIVERS + EMERGENCY

STANDARD DRIVER OPTIONS	
OPTOTRONIC® ADVANCE ERP POWER	**F1** Non-Dim **F2** 0–10 V Dim 3% **F4** Line Voltage Dim 3% (Forward/Reverse) 120 V
eldoLED®	**E1** eldoLED ECO 0–10 V Dim 1% **E2** eldoLED SOLO 0–10 V Dim 0.1% **E3** eldoLED ECO DALI-2 DT6 Dim 1% **E4** eldoLED SOLO DALI-2 DT6 Dim 0.1%
LUTRON®	**L1** Lutron Hi-Lume 1% EcoSystem (LDE1) **L3** Lutron Hi-Lume Premier 0.1% EcoSystem (PEQ0)

EMERGENCY OPTIONS	
bodine RIB®	**B** Battery Pack Bodine BSL310 (10 W) **H** Emergency Switching Functional Devices ESRB Emergency Lighting Relay

Driver and emergency selection may be limited by product or version. For further options, contact Fluxwerx.

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FLUXWERX

SPECIFICATION DATA

PORTAL SEMI-RECESSED 5.5" (TC1-H05, TC1-J05)

FAMILY PERFORMANCE

COLOR

80 CRI	4000 K	3500 K	3000 K	2700 K
Color Rendering (CRI)	83	82	82	83
Red Index (R9)	5	3	3	5
Fidelity (TM-30 R_f)	84	83	84	86
Gamut (TM-30 R_g)	93	96	94	95
Color Matching (SDCM)	< 2			

90 CRI	4000 K	3500 K	3000 K	2700 K
Color Rendering (CRI)	93	93	93	93
Red Index (R9)	59	57	57	57
Fidelity (TM-30 R_f)	90	89	90	91
Gamut (TM-30 R_g)	97	99	97	97
Color Matching (SDCM)	< 2			

Typical colorimetry values.

90 CRI

LUMEN MAINTENANCE

	A 9 W	B 12 W	C 16 W	D 21 W
L80 per TM-21 (hr)	> 72,000			
L70 Estimate (hr)	> 130,000			

OUTPUT MULTIPLIERS

MULTIPLIER		Applies To
90 CRI	0.86	All 80 CRI
Battery Pack	0.95	Energy B (12 W)

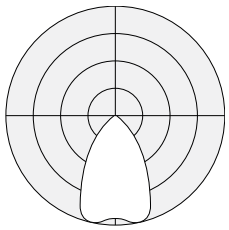
FIXTURE FINISH	Narrow Beam	Medium Beam	Wide Beam
Black	0.94	0.94	0.92
Metallic Silver	0.94	0.94	0.92

For 90 CRI, emergency BP or non-white fixtures, use multipliers to scale published Light (lm), Efficacy (lm/W), Intensity (Cd), Luminance (Cd/m²) and IES files.

VERSION PERFORMANCE

W1 – 5.5" Wide Beam, White Fixture, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT			LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	UGR (4H x 8H)	
TC1-H05-W1840 4000 K	A	9 W	1266	9.64	131.3	1,002	201	>10,000	16.0	
	B	12 W	1679	12.64	132.8	1,329	266	>10,000	17.0	
	C	16 W	2247	16.56	135.7	1,778	357	>10,000	18.0	
	D	21 W	2865	21.89	130.9	2,268	455	>10,000	18.8	
TC1-H05-W1835 3500 K	A	9 W	1249	9.64	129.6	989	198	>10,000	15.9	
	B	12 W	1657	12.64	131.1	1,312	263	>10,000	16.9	
	C	16 W	2217	16.56	133.8	1,755	352	>10,000	17.9	
	D	21 W	2827	21.85	129.4	2,238	449	>10,000	18.8	
TC1-H05-W1830 3000 K	A	9 W	1205	9.64	125.0	954	191	>10,000	15.8	
	B	12 W	1598	12.64	126.5	1,265	254	>10,000	16.8	
	C	16 W	2139	16.56	129.1	1,693	339	>10,000	17.8	
	D	21 W	2727	21.85	124.8	2,159	433	>10,000	18.7	
TC1-H05-W1827 2700 K	A	9 W	1153	9.64	119.6	912	183	>10,000	15.7	
	B	12 W	1529	12.64	121.0	1,210	243	>10,000	16.6	
	C	16 W	2046	16.56	123.5	1,619	325	>10,000	17.7	
	D	21 W	2587	21.40	120.9	2,048	411	>10,000	18.5	



Portal Recessed
5.5"
Wide Beam

Beam Angle	66°

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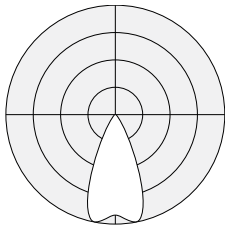
SPECIFICATION DATA

PORTAL SEMI-RECESSED 5.5" (TC1-H05, TC1-J05)

VERSION PERFORMANCE

M1 – 5.5" Medium Beam, White Fixture, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT			LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45–90° (Cd)	MAX LUMINANCE 45–90° (Cd/m²)	UGR (4H x 8H)	
TC1-H05-M1840 4000 K	A	9 W	1325	9.64	137.5	2,054	54	5,000	14.0	
	B	12 W	1758	12.64	139.1	2,725	72	6,630	15.0	
	C	16 W	2352	16.56	142.1	3,645	96	8,860	16.0	
	D	21 W	3000	21.84	137.3	4,648	122	>10,000	16.9	
TC1-H05-M1835 3500 K	A	9 W	1308	9.64	135.7	2,027	53	4,930	14.0	
	B	12 W	1735	12.64	137.3	2,689	71	6,540	15.0	
	C	16 W	2321	16.56	140.2	3,597	95	8,750	16.0	
	D	21 W	2960	21.84	135.5	4,587	121	>10,000	16.8	
TC1-H05-M1830 3000 K	A	9 W	1262	9.64	130.9	1,955	52	4,760	13.8	
	B	12 W	1674	12.64	132.4	2,594	68	6,310	14.8	
	C	16 W	2239	16.56	135.2	3,470	91	8,440	15.8	
	D	21 W	2855	21.84	130.7	4,425	116	>10,000	16.7	
TC1-H05-M1827 2700 K	A	9 W	1207	9.64	125.2	1,870	49	4,550	13.7	
	B	12 W	1601	12.64	126.7	2,481	65	6,030	14.7	
	C	16 W	2142	16.56	129.4	3,320	87	8,080	15.7	
	D	21 W	2731	21.84	125.1	4,233	111	>10,000	16.5	

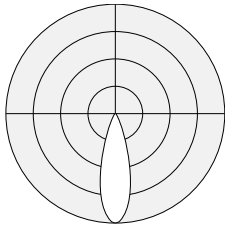


Portal Recessed
5.5"
Medium Beam

Beam Angle 47°

N1 – 5.5" Narrow Beam, White Fixture, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT			LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45–90° (Cd)	MAX LUMINANCE 45–90° (Cd/m²)	UGR (4H x 8H)	
TC1-H05-N1840 4000 K	A	9 W	1319	9.64	136.9	4,052	40	3,710	12.3	
	B	12 W	1750	12.64	138.4	5,376	53	4,930	13.3	
	C	16 W	2341	16.56	141.4	7,193	71	6,600	14.3	
	D	21 W	2985	21.87	136.5	9,172	91	8,410	15.2	
TC1-H05-N1835 3500 K	A	9 W	1302	9.64	135.0	3,999	40	3,670	12.3	
	B	12 W	1727	12.64	136.6	5,305	53	4,860	13.3	
	C	16 W	2310	16.56	139.5	7,098	70	6,510	14.3	
	D	21 W	2946	21.87	134.7	9,050	90	8,300	15.1	
TC1-H05-N1830 3000 K	A	9 W	1256	9.64	130.3	3,857	38	3,540	12.2	
	B	12 W	1666	12.64	131.8	5,117	51	4,690	13.2	
	C	16 W	2229	16.56	134.6	6,847	68	6,270	14.2	
	D	21 W	2842	21.87	129.9	8,731	87	8,000	15.0	
TC1-H05-N1827 2700 K	A	9 W	1201	9.64	124.6	3,690	37	3,380	12.0	
	B	12 W	1593	12.64	126.1	4,895	49	4,490	13.0	
	C	16 W	2132	16.56	128.7	6,550	65	6,010	14.0	
	D	21 W	2719	21.87	124.3	8,352	83	7,660	14.9	



Portal Recessed
5.5"
Narrow Beam

Beam Angle 31°

Photometry Reports: 13694183.01 – 08

Photometry baseline established with integrating sphere and goniophotometer results from an independent accredited testing laboratory per IES LM-79, ANSI 78.377. Remaining values scaled from baseline data. Output and power may vary by up to 5%.

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