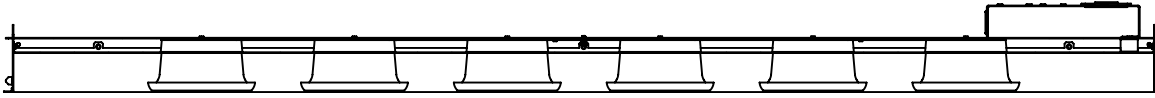
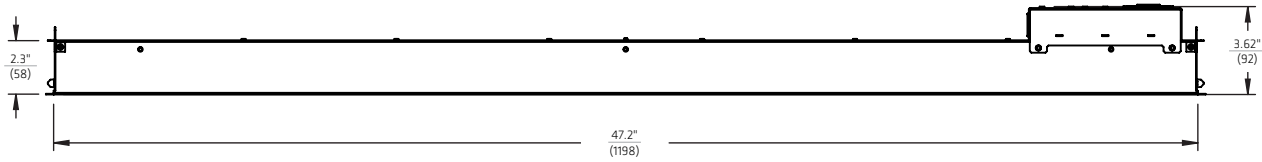




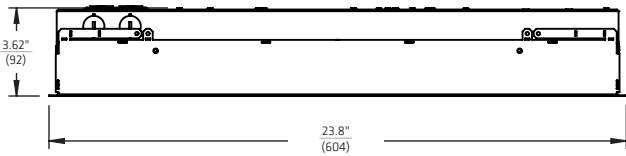
CROSS SECTION



DIMENSIONS inches (mm)

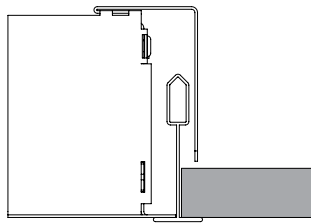


SIDE VIEW

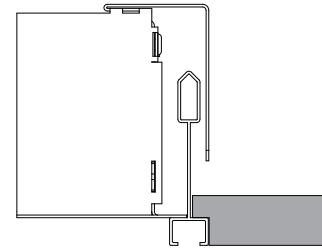


FRONT VIEW

CEILING INTEGRATION GRID

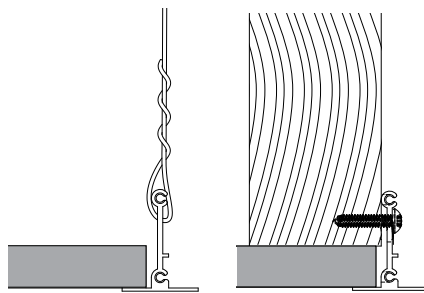


FLAT GRID

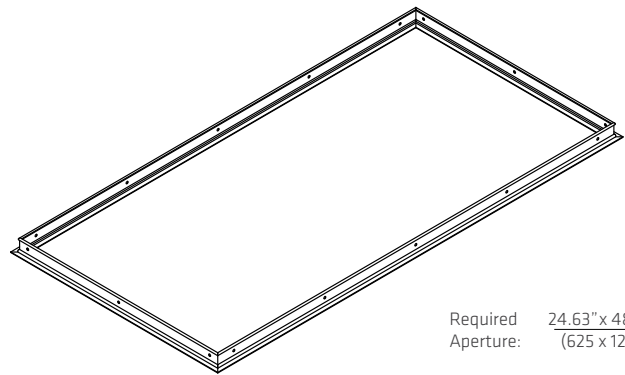


SLOT GRID

CEILING INTEGRATION DRYWALL



DRYWALL FLANGE KIT



Required Aperture: 24.63" x 48.63" (625 x 1235)

**CONSTRUCTION**

- Formed 22 ga. steel housing
- Quick wire access plate and integral seismic restraint tabs/tie-offs
- Option for (K) drywall flange kit
- High reflectance diffuse white textured powdercoat

**OPTICAL**

- Radial Anidolic optical structures with detailed light extraction elements for 360° symmetric batwing distribution
- Precision molded high transmittance clear acrylic lenses
- Long life LED system designed for typical TM21 lumen maintenance ≥ L90 @ 54,000 h
- Available in CCTs 3000 K, 3500 K or 4000 K with CRI ≥ 80 and R9 ≥ 0, all with color accurate binning ≤ 2 SDCM

**ELECTRICAL**

- Integral high efficiency drivers 120 – 277 V or 347 V; 50 – 60 Hz
- Power Factor > 0.90
- Total Harmonic Distortion < 20%
- F2:0 – 10 V Dim Range: 3 – 100%
- Optional Battery Pack
- Optional Lutron: Hi-lume H-Series EcoSystem LED drivers for 100 – 1% (PWM) dim range
- Optional flex whip: 6' prewired
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

**WEIGHT**

- Maximum 31 lb (14.1 kg)
- Maximum 35 lb (15.9 kg) with battery pack

**WARRANTY**

- 5 year limited warranty on all components and workmanship

**ENVIRONMENTAL**

- Designed for use in damp or dry indoor environments with room side operating temperatures of 0 – 30° C (32 – 86° F)

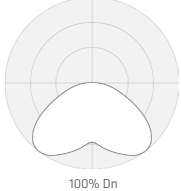
**INDEPENDENT TESTING**

- IESNA LM79
- IESNA LM80 (LED@ 9,000 h)

**APPROVALS**

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- IC Rated

Product	Loop 2x4	Description  2x4 LED A Lumens CCT 4000 K	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
Version	LR1-24A40		CCT Color Temperature	4000 K	2745	23	119.2	(CRI)	(R9)	(SDCM)
Report	FLUXWERX			3500 K	2655	23	115	82	1.8	< 2
		3000 K		2565	23	113	82	4.3	< 2	



100% Dn

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	517	517	517	517	517
5°	528	522	518	527	529
15°	638	644	667	640	631
25°	682	739	782	734	674
35°	637	736	804	736	629
45°	551	673	739	673	546
55°	427	565	610	564	422
65°	290	400	455	400	287
75°	191	266	251	265	188
85°	63	93	78	85	57
90°	3	4	4	5	5
95°					
105°					
115°					
125°					
135°					
145°					
155°					
165°					
175°					
180°					

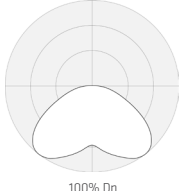
Zone	Lumens	% Lamp	% Fixture
0-30°	575	N.A.	21
0-60°	2017	N.A.	74
0-90°	2745	N.A.	100
90-180°	0	N.A.	0
<b>Total Luminaire</b>	<b>0-180°</b>	<b>2745</b>	<b>N.A.</b>

Vertical Angle	0°	45°	90°
45°	2411	3229	2386
55°	2303	3286	2273
65°	2122	3329	2097
75°	2276	3000	2246
85°	2224	2771	2026

Floor Ceiling Wall	80				70				20				30				10				0			
	70	50	30	10	70	50	30	10	50	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50
0	119	119	119	119	116	116	116	111	111	106	106	102	102	100	100	100	100	100	100	100	100	100	100	100
1	107	102	97	93	105	100	91	95	88	91	86	88	83	81	81	81	81	81	81	81	81	81	81	81
2	97	88	80	74	94	86	73	82	71	79	69	76	68	66	66	66	66	66	66	66	66	66	66	66
3	87	76	67	60	85	74	59	71	58	68	57	66	56	54	54	54	54	54	54	54	54	54	54	54
4	80	67	57	50	77	65	49	63	49	60	48	58	47	45	45	45	45	45	45	45	45	45	45	45
5	73	59	49	42	70	58	42	56	41	53	41	52	40	38	38	38	38	38	38	38	38	38	38	38
6	67	53	43	36	65	52	36	50	36	48	35	46	35	33	33	33	33	33	33	33	33	33	33	33
7	62	47	38	31	60	46	31	45	31	43	31	42	31	28	28	28	28	28	28	28	28	28	28	28
8	57	43	34	28	55	42	28	41	27	39	27	38	27	25	25	25	25	25	25	25	25	25	25	25
9	53	39	30	25	52	38	24	37	24	36	24	35	24	22	22	22	22	22	22	22	22	22	22	22
10	50	36	27	22	48	35	22	34	22	33	22	32	22	20	20	20	20	20	20	20	20	20	20	20

Integrating Sphere and Photometric results at 4000K by an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Results for 3000K, 3500K scaled based on integrating sphere results at 47W (D). Candlepower Distribution scaled per total lumens of Integrating Sphere results.

Product	Loop 2x4	Description  2x4 LED B Lumens CCT 4000 K	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
Version	LR1-24B40		CCT Color Temperature	4000 K	3334	28.4	117.4	(CRI)	(R9)	(SDCM)
Report	FLUXWERX			3500 K	3281	28	115	83	4.5	< 2
		3000 K		3227	28	114	82	4.3	< 2	



100% Dn

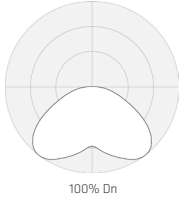
Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	628	628	628	628	628
5°	641	634	629	640	643
15°	775	782	810	777	766
25°	829	897	949	892	818
35°	774	894	976	894	764
45°	670	817	897	817	663
55°	519	686	741	685	512
65°	352	486	553	486	348
75°	231	323	305	322	228
85°	76	112	95	103	69
90°	3	4	5	6	6
95°					
105°					
115°					
125°					
135°					
145°					
155°					
165°					
175°					
180°					

Zone	Lumens	% Lamp	% Fixture
0-30°	698	N.A.	21
0-60°	2450	N.A.	74
0-90°	3334	N.A.	100
90-180°	0	N.A.	0
<b>Total Luminaire</b>	<b>0-180°</b>	<b>3334</b>	<b>N.A.</b>

Vertical Angle	0°	45°	90°
45°	2929	3922	2898
55°	2798	3992	2760
65°	2578	4043	2546
75°	2764	3642	2727
85°	2703	3366	2462

Floor Ceiling Wall	80				70				20				30				10				0			
	70	50	30	10	70	50	30	10	50	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50
0	119	119	119	119	116	116	116	111	111	106	106	102	102	100	100	100	100	100	100	100	100	100	100	100
1	107	102	97	93	105	100	91	95	88	91	86	88	83	81	81	81	81	81	81	81	81	81	81	81
2	97	88	80	74	94	86	73	82	71	79	69	76	68	66	66	66	66	66	66	66	66	66	66	66
3	87	76	67	60	85	74	59	71	58	68	57	66	56	54	54	54	54	54	54	54	54	54	54	54
4	80	67	57	50	77	65	49	63	49	60	48	58	47	45	45	45	45	45	45	45	45	45	45	45
5	73	59	49	42	70	58	42	56	41	53	41	52	40	38	38	38	38	38	38	38	38	38	38	38
6	67	53	43	36	65	52	36	50	36	48	35	46	35	33	33	33	33	33	33	33	33	33	33	33
7	62	47	38	31	60	46	31	45	31	43	31	42	31	28	28	28	28	28	28	28	28	28	28	28
8	57	43	34	28	55	42	28	41	27	39	27	38	27	25	25	25	25	25	25	25	25	25	25	25
9	53	39	30	25	52	38	24	37	24	36	24	35	24	22	22	22	22	22	22	22	22	22	22	22
10	50	36	27	22	48	35	22	34	22	33	22	32	22	20	20	20	20	20	20	20	20	20	20	20

Product	Loop 2x4	Description	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
Version	LR1-24C40	2x4 LED C Lumens CCT 4000 K	CCT Color Temperature	4000 K	4290	37.4	114.6	82	2	< 2
Report	FLUXWERX			3500 K	4221	37	113	83	4.5	< 2
				3000 K	4153	37	111	82	4.3	< 2



100% Dn

### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	808	808	808	808	808
5°	825	815	810	823	827
15°	998	1006	1042	1000	986
25°	1066	1154	1222	1147	1053
35°	996	1150	1256	1150	983
45°	862	1051	1154	1051	853
55°	668	883	953	881	659
65°	453	625	711	625	448
75°	298	416	392	414	294
85°	98	145	122	132	89
90°	4	5	7	8	7
95°					
105°					
115°					
125°					
135°					
145°					
155°					
165°					
175°					
180°					

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture	
0-30°	898	N.A.	21	
0-60°	3153	N.A.	74	
0-90°	4290	N.A.	100	
90-180°	0	N.A.	0	
Total Luminaire	0-180°	4291	N.A.	100

### LUMINANCE DATA (CD/M<sup>2</sup>)

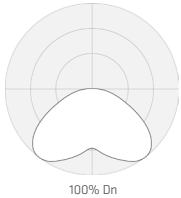
Vertical Angle	0°	45°	90°
	45°	3768	5046
55°	3600	5136	3552
65°	3317	5202	3276
75°	3557	4687	3510
85°	3476	4331	3164

### CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70				20				50				30				10				0			
	70	50	30	10	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10
0	119	119	119	119	116	116	116	111	111	106	106	102	102	100														
1	107	102	97	93	105	100	91	95	88	91	86	88	83	81														
2	97	88	80	74	94	86	73	82	71	79	69	76	68	66														
3	87	76	67	60	85	74	59	71	58	68	57	66	56	54														
4	79	67	57	50	77	65	49	63	49	60	48	58	47	45														
5	73	59	49	42	70	58	42	56	41	53	41	52	40	38														
6	67	53	43	36	65	52	36	50	36	48	35	46	35	33														
7	62	47	38	31	60	46	31	45	31	43	31	42	31	28														
8	57	43	34	28	55	42	28	41	27	39	27	38	27	25														
9	53	39	30	25	52	38	24	37	24	36	24	35	24	22														
10	50	36	27	22	48	35	22	34	22	33	22	32	22	20														

Integrating Sphere and Photometric results at 4000K by an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Results for 3000K, 3500K scaled based on integrating sphere results at 47W (D). Candlepower Distribution scaled per total lumens of Integrating Sphere results.

Product	Loop 2x4	Description	Performance Summary		Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
Version	LR1-24D40	2x4 LED D Lumens CCT 4000 K	CCT Color Temperature	4000 K	5130	46.3	110.8	82	2	< 2
Report	FLUXWERX			3500 K	5048	46	109	83	4.5	< 2
				3000 K	4966	46	103	82	4.3	< 2



100% Dn

### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	966	966	966	966	966
5°	986	975	968	984	989
15°	1193	1204	1246	1196	1179
25°	1275	1380	1461	1372	1259
35°	1191	1375	1502	1375	1176
45°	1031	1257	1380	1257	1020
55°	799	1056	1139	1054	788
65°	542	748	850	747	536
75°	356	497	469	495	351
85°	117	173	146	158	107
90°	5	7	8	9	9
95°					
105°					
115°					
125°					
135°					
145°					
155°					
165°					
175°					
180°					

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture	
0-30°	1074	N.A.	21	
0-60°	3770	N.A.	74	
0-90°	5130	N.A.	100	
90-180°	0	N.A.	0	
Total Luminaire	0-180°	5131	N.A.	100

### LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	0°	45°	90°
	45°	4506	6034
55°	4304	6142	4247
65°	3967	6221	3918
75°	4254	5605	4197
85°	4158	5179	3785

### CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70				20				50				30				10				0			
	70	50	30	10	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10
0	119	119	119	119	116	116	116	111	111	106	106	102	102	100														
1	107	102	97	93	105	100	91	95	88	91	86	88	83	81														
2	97	88	80	74	94	86	73	82	71	79	69	76	68	66														
3	87	76	67	60	85	74	59	71	58	68	57	66	56	54														
4	79	67	57	50	77	65	49	63	49	60	48	58	47	45														
5	73	59	49	42	70	58	42	56	41	53	41	52	40	38														
6	67	53	43	36	65	52	36	50	36	48	35	46	35	33														
7	62	47	38	31	60	46	31	45	31	43	31	42	31	28														
8	57	43	34	28	55	42	28	41	27	39	27	38	27	25														
9	53	39	30	25	52	38	24	37	24	36	24	35	24	22														
10	50	36	27	22	48	35	22	34	22	33	22	32	22	20														