

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P183890

Luminaire Tested: **22SR-LD2-29-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32591)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-29-S-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3331.4 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.61 / 1.54
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

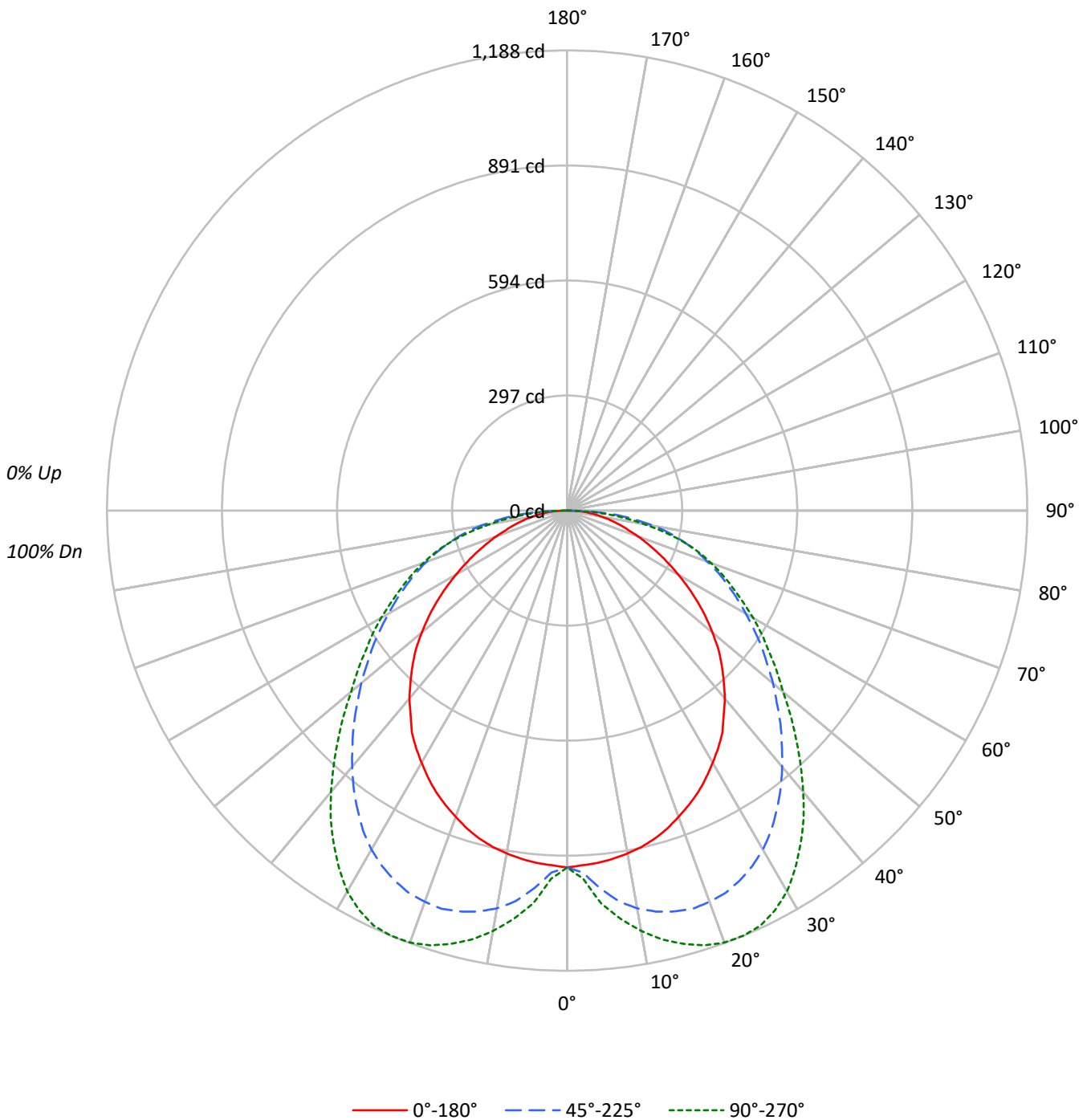
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2479	2479	2479
5°	2467	2644	2752
10°	2456	2849	3011
15°	2442	2985	3226
20°	2409	3078	3398
25°	2379	3129	3509
30°	2335	3141	3528
35°	2296	3099	3452
40°	2225	3034	3331
45°	2148	2964	3183
50°	2049	2906	3046
55°	1928	2874	2986
60°	1781	2866	2986
65°	1650	2923	3004
70°	1535	3032	3108
75°	1446	3242	3225
80°	1389	3519	3147
85°	1531	3850	3112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	2.8
10°-20°	297.0	8.9
20°-30°	473.8	14.2
30°-40°	570.4	17.1
40°-50°	572.1	17.2
50°-60°	511.4	15.4
60°-70°	414.3	12.4
70°-80°	288.4	8.7
80°-90°	109.7	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	865.2	26.0
0°-40°	1435.5	43.1
0°-60°	2519.0	75.6
0°-90°	3331.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3331.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	913	934	979	1011	1019	87
15°	876	979	1072	1136	1158	247
25°	801	928	1054	1148	1182	369
35°	699	809	944	1027	1051	435
45°	564	660	779	825	836	435
55°	411	515	612	632	636	367
65°	259	379	459	465	472	258
75°	139	256	312	310	310	148
85°	50	110	125	107	101	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.2	921.2	921.2	921.2	921.2
2.5°	916.4	921.2	935.5	948.3	951.5
5°	913.2	933.9	978.7	1010.7	1018.7
7.5°	906.8	949.9	1017.1	1050.7	1063.5
10°	898.8	967.5	1042.7	1085.9	1101.9
12.5°	889.2	978.7	1060.3	1114.7	1133.9
15°	876.4	978.7	1071.5	1135.5	1157.8
17.5°	860.4	973.9	1077.9	1149.8	1177.0
20°	841.2	964.3	1074.7	1157.8	1186.6
22.5°	822.0	948.3	1068.3	1157.8	1188.2
25°	801.2	927.6	1053.9	1148.2	1181.8
27.5°	777.2	903.6	1034.7	1130.7	1162.6
30°	751.6	874.8	1010.7	1105.1	1135.5
32.5°	726.0	842.8	980.3	1069.9	1095.5
35°	698.9	809.2	943.5	1026.7	1050.7
37.5°	663.7	770.8	905.2	980.3	1002.7
40°	633.3	735.6	863.6	930.7	948.3
42.5°	598.1	697.3	820.4	878.0	892.4
45°	564.5	660.5	778.8	825.2	836.4
47.5°	529.3	622.1	734.0	772.4	782.0
50°	489.4	585.3	694.1	726.0	727.6
52.5°	451.0	550.1	650.9	676.5	682.9
55°	411.0	515.0	612.5	631.7	636.5
57.5°	371.0	481.4	572.5	588.5	596.5
60°	331.0	446.2	532.5	546.9	554.9
62.5°	294.3	412.6	495.8	505.4	511.8
65°	259.1	379.0	459.0	465.4	471.8
67.5°	225.5	348.6	423.8	427.0	435.0
70°	195.1	318.2	385.4	388.6	395.0
72.5°	164.7	286.3	350.2	348.6	355.0
75°	139.1	255.9	311.8	310.2	310.2
77.5°	115.1	223.9	271.9	262.3	257.5
80°	89.6	190.3	227.1	207.9	203.1
82.5°	70.4	151.9	175.9	156.7	151.9
85°	49.6	110.3	124.7	107.1	100.8
87.5°	25.6	59.2	64.0	54.4	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)