

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: P183805

Luminaire Tested: **24SR-LD2-64-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34443)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-64-C-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7190.6 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.52 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

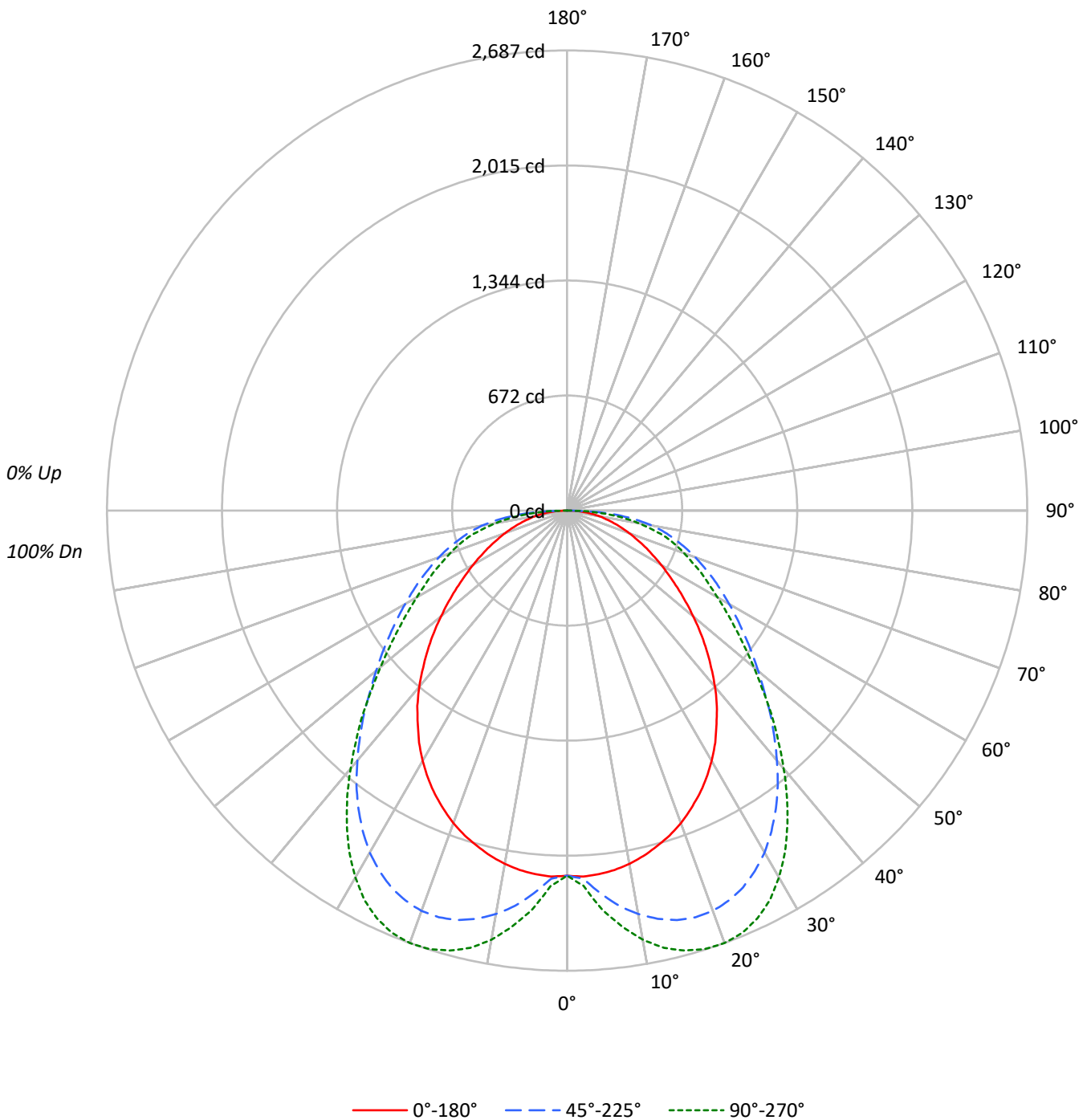
Input Watts (W): 55.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2868	2868	2868
5°	2879	3032	3158
10°	2862	3268	3476
15°	2826	3448	3705
20°	2781	3562	3847
25°	2712	3606	3901
30°	2621	3583	3842
35°	2497	3489	3683
40°	2359	3347	3455
45°	2192	3192	3215
50°	2010	3048	2976
55°	1844	2961	2811
60°	1705	2941	2729
65°	1595	2995	2752
70°	1517	3130	2860
75°	1468	3396	3103
80°	1485	3901	3273
85°	1555	4550	3563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.9	3.0
10°-20°	686.0	9.5
20°-30°	1082.7	15.1
30°-40°	1268.8	17.6
40°-50°	1213.8	16.9
50°-60°	1034.3	14.4
60°-70°	830.0	11.5
70°-80°	600.8	8.4
80°-90°	256.5	3.6
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°	1986.5	27.6
0°-40°	3255.3	45.3
0°-60°	5503.3	76.5
0°-90°	7190.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7190.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2132	2132	2132	2132	2132	
5°	2132	2171	2245	2323	2338	202
15°	2028	2272	2476	2623	2660	572
25°	1827	2178	2429	2593	2628	840
35°	1520	1893	2124	2237	2242	951
45°	1152	1488	1677	1699	1690	887
55°	786	1120	1262	1228	1198	706
65°	501	842	941	879	864	498
75°	282	597	653	602	597	300
85°	101	300	295	243	231	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2131.7	2131.7	2131.7	2131.7	2131.7
2.5°	2139.0	2141.5	2151.3	2193.1	2193.1
5°	2131.7	2170.9	2244.6	2323.2	2337.9
7.5°	2116.9	2205.3	2328.1	2428.8	2448.5
10°	2094.8	2242.2	2392.0	2514.8	2544.2
12.5°	2065.3	2264.3	2441.1	2581.1	2615.5
15°	2028.5	2271.6	2475.5	2622.8	2659.7
17.5°	1989.2	2269.2	2490.2	2647.4	2684.2
20°	1942.6	2249.5	2487.7	2652.3	2686.7
22.5°	1886.1	2222.5	2465.6	2632.6	2669.5
25°	1827.1	2178.3	2428.8	2593.4	2627.7
27.5°	1760.8	2126.7	2372.3	2532.0	2563.9
30°	1687.2	2060.4	2306.0	2448.5	2473.0
32.5°	1608.6	1981.9	2220.1	2350.2	2367.4
35°	1520.2	1893.4	2124.3	2237.3	2242.2
37.5°	1436.7	1797.7	2021.1	2112.0	2109.6
40°	1343.3	1694.5	1905.7	1979.4	1967.1
42.5°	1245.1	1591.4	1790.3	1841.9	1824.7
45°	1151.8	1488.2	1677.3	1699.4	1689.6
47.5°	1056.0	1385.1	1559.4	1576.6	1547.2
50°	960.2	1291.8	1456.3	1448.9	1421.9
52.5°	871.8	1205.8	1358.1	1336.0	1306.5
55°	785.9	1119.9	1262.3	1227.9	1198.4
57.5°	704.8	1043.7	1176.3	1129.7	1102.7
60°	633.6	970.1	1092.8	1038.8	1014.3
62.5°	564.8	903.7	1014.3	957.8	933.2
65°	501.0	842.3	940.6	879.2	864.5
67.5°	439.6	781.0	866.9	808.0	790.8
70°	385.6	717.1	795.7	736.7	726.9
72.5°	331.5	658.2	724.5	670.4	663.1
75°	282.4	596.8	653.2	601.7	596.8
77.5°	233.3	530.5	582.0	520.6	508.4
80°	191.6	464.2	503.4	432.2	422.4
82.5°	144.9	383.1	402.8	338.9	334.0
85°	100.7	299.6	294.7	243.1	230.8
87.5°	54.0	179.3	157.2	125.2	120.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)