

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: P183843

Luminaire Tested: **24SR-LD2-64-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32665)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-64-S-UNV-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6411.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

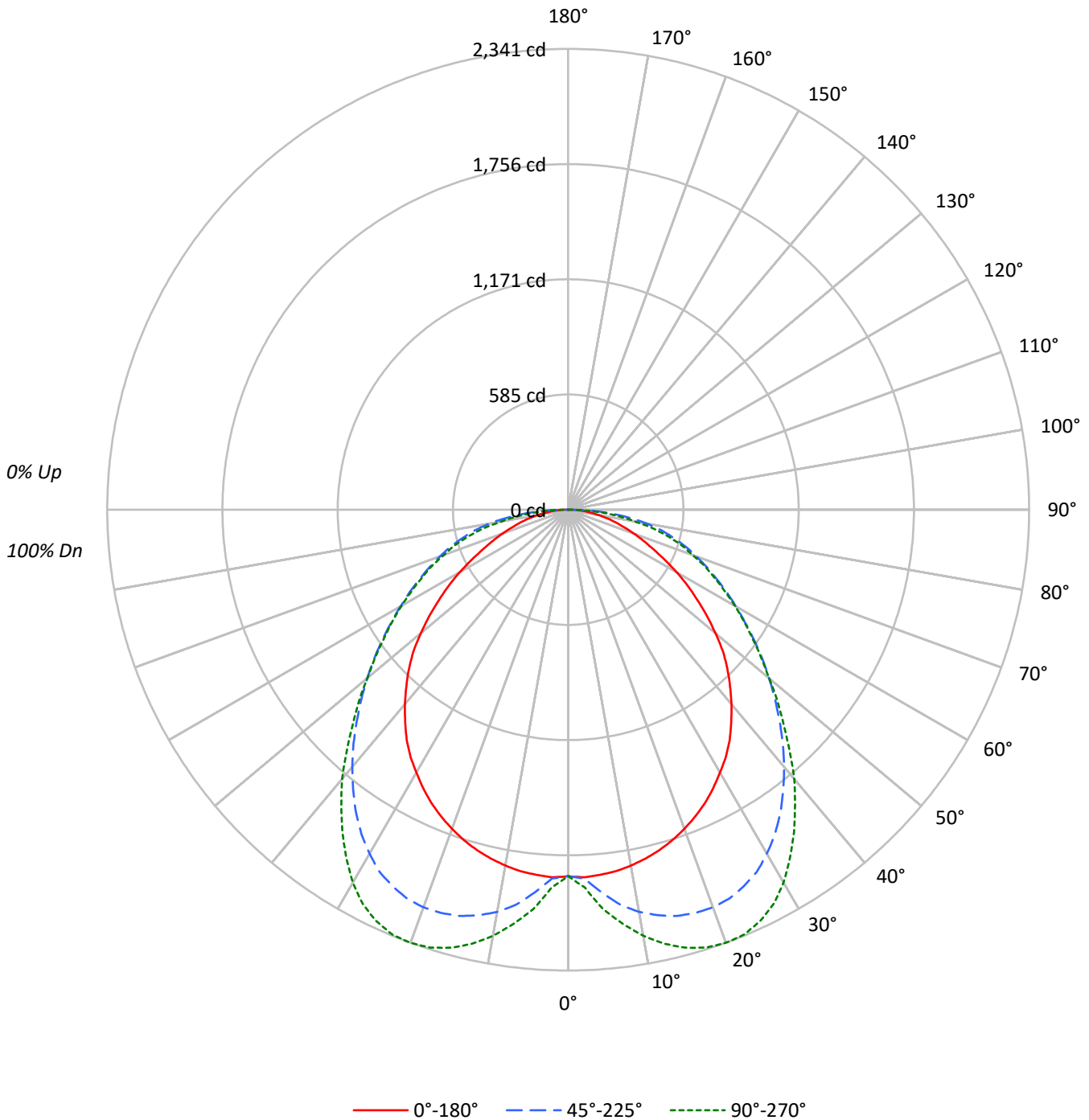
Input Watts (W): 55.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	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	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	52	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2505	2505	2505
5°	2515	2637	2751
10°	2508	2834	3004
15°	2494	2976	3209
20°	2469	3078	3353
25°	2440	3133	3423
30°	2396	3135	3398
35°	2348	3086	3284
40°	2266	2996	3138
45°	2176	2888	2945
50°	2043	2787	2787
55°	1879	2700	2682
60°	1711	2647	2632
65°	1521	2647	2611
70°	1398	2723	2641
75°	1300	2884	2738
80°	1224	3147	2667
85°	1190	3396	2787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	3.0
10°-20°	595.8	9.3
20°-30°	948.8	14.8
30°-40°	1131.5	17.6
40°-50°	1114.6	17.4
50°-60°	962.6	15.0
60°-70°	751.3	11.7
70°-80°	514.8	8.0
80°-90°	202.0	3.2
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°	1734.2	27.1
0°-40°	2865.7	44.7
0°-60°	4942.9	77.1
0°-90°	6411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1862	1896	1952	2026	2037	177
15°	1790	1980	2136	2270	2304	505
25°	1644	1903	2110	2270	2306	756
35°	1429	1672	1879	1986	1999	891
45°	1143	1352	1518	1561	1548	880
55°	801	1016	1151	1155	1143	719
65°	478	715	831	828	820	480
75°	250	485	555	532	527	266
85°	77	233	220	188	180	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1861.9	1861.9	1861.9	1861.9	1861.9
2.5°	1869.4	1871.3	1875.0	1912.6	1920.2
5°	1861.9	1895.7	1952.1	2025.5	2036.8
7.5°	1852.5	1927.7	2023.6	2102.6	2121.4
10°	1835.5	1959.7	2074.4	2174.0	2198.5
12.5°	1814.8	1976.6	2110.1	2226.7	2258.7
15°	1790.4	1980.3	2136.4	2270.0	2303.8
17.5°	1760.3	1974.7	2147.7	2294.4	2332.0
20°	1724.6	1959.7	2149.6	2303.8	2341.4
22.5°	1687.0	1937.1	2138.3	2296.3	2335.8
25°	1643.7	1903.2	2110.1	2270.0	2305.7
27.5°	1594.8	1856.2	2074.4	2224.8	2258.7
30°	1542.1	1801.7	2018.0	2159.0	2187.2
32.5°	1489.5	1741.5	1954.0	2080.0	2096.9
35°	1429.3	1671.9	1878.8	1986.0	1999.1
37.5°	1359.7	1602.3	1794.2	1888.2	1891.9
40°	1290.1	1517.7	1705.8	1775.3	1786.6
42.5°	1216.8	1434.9	1613.6	1671.9	1664.4
45°	1143.4	1352.2	1517.7	1561.0	1547.8
47.5°	1066.3	1267.6	1423.7	1451.9	1442.5
50°	976.1	1182.9	1331.5	1346.6	1331.5
52.5°	889.6	1102.1	1241.2	1248.8	1235.6
55°	801.2	1015.6	1151.0	1154.7	1143.4
57.5°	720.3	934.7	1064.5	1064.5	1058.8
60°	635.7	853.8	983.6	979.8	977.9
62.5°	554.8	782.4	908.4	902.7	897.1
65°	477.7	714.7	831.3	827.5	820.0
67.5°	413.7	650.7	759.8	754.1	750.4
70°	355.4	594.3	692.1	677.0	671.4
72.5°	299.0	537.9	626.3	603.7	605.6
75°	250.1	485.2	554.8	532.2	526.6
77.5°	201.2	430.7	485.2	449.5	442.0
80°	158.0	372.4	406.2	361.1	344.2
82.5°	116.6	308.4	316.0	272.7	261.4
85°	77.1	233.2	220.0	188.1	180.5
87.5°	41.4	137.3	118.5	95.9	90.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)