

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: P183842

Luminaire Tested: **24SR-LD2-64-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183842
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-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6218.7 lumens
Efficiency: N/A
Efficacy: 112.0 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

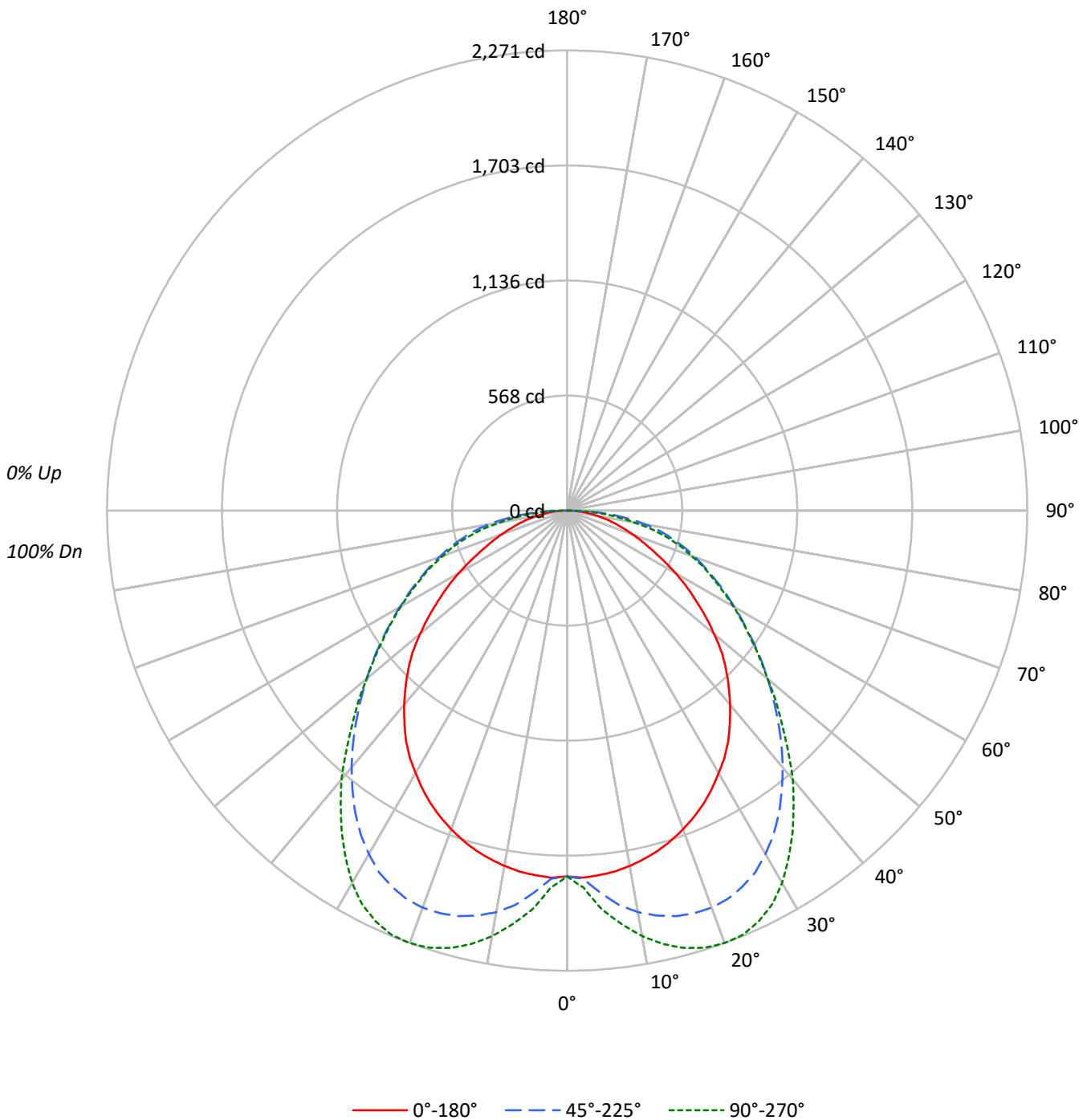
Input Watts (W): 55.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2430	2430	2430
5°	2439	2558	2668
10°	2433	2749	2914
15°	2419	2887	3113
20°	2395	2986	3252
25°	2367	3039	3320
30°	2324	3041	3296
35°	2277	2993	3185
40°	2198	2906	3044
45°	2110	2801	2857
50°	1982	2704	2704
55°	1823	2619	2602
60°	1659	2567	2553
65°	1475	2567	2532
70°	1356	2641	2562
75°	1261	2798	2655
80°	1187	3053	2586
85°	1155	3294	2703



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	3.0
10°-20°	577.9	9.3
20°-30°	920.3	14.8
30°-40°	1097.5	17.6
40°-50°	1081.2	17.4
50°-60°	933.7	15.0
60°-70°	728.7	11.7
70°-80°	499.4	8.0
80°-90°	196.0	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°	1682.2	27.1
0°-40°	2779.7	44.7
0°-60°	4794.6	77.1
0°-90°	6218.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6218.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1806	1839	1894	1965	1976	172
15°	1737	1921	2072	2202	2235	490
25°	1594	1846	2047	2202	2236	734
35°	1386	1622	1822	1926	1939	864
45°	1109	1312	1472	1514	1501	853
55°	777	985	1116	1120	1109	697
65°	463	693	806	803	795	466
75°	243	471	538	516	511	258
85°	75	226	213	182	175	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1806.0	1806.0	1806.0	1806.0	1806.0
2.5°	1813.3	1815.1	1818.8	1855.3	1862.6
5°	1806.0	1838.8	1893.6	1964.7	1975.7
7.5°	1796.9	1869.8	1962.9	2039.5	2057.7
10°	1780.5	1900.9	2012.1	2108.8	2132.5
12.5°	1760.4	1917.3	2046.8	2159.9	2190.9
15°	1736.7	1920.9	2072.3	2201.9	2234.7
17.5°	1707.5	1915.5	2083.3	2225.6	2262.1
20°	1672.8	1900.9	2085.1	2234.7	2271.2
22.5°	1636.3	1879.0	2074.2	2227.4	2265.7
25°	1594.4	1846.1	2046.8	2201.9	2236.5
27.5°	1547.0	1800.5	2012.1	2158.1	2190.9
30°	1495.9	1747.6	1957.4	2094.2	2121.6
32.5°	1444.8	1689.2	1895.4	2017.6	2034.0
35°	1386.4	1621.8	1822.4	1926.4	1939.2
37.5°	1318.9	1554.3	1740.3	1831.5	1835.2
40°	1251.4	1472.2	1654.6	1722.1	1733.0
42.5°	1180.3	1391.9	1565.2	1621.8	1614.5
45°	1109.1	1311.6	1472.2	1514.1	1501.4
47.5°	1034.3	1229.5	1381.0	1408.3	1399.2
50°	946.8	1147.4	1291.6	1306.2	1291.6
52.5°	862.9	1069.0	1204.0	1211.3	1198.5
55°	777.1	985.1	1116.4	1120.1	1109.1
57.5°	698.7	906.6	1032.5	1032.5	1027.0
60°	616.6	828.2	954.1	950.4	948.6
62.5°	538.2	758.9	881.1	875.6	870.2
65°	463.4	693.2	806.3	802.7	795.4
67.5°	401.3	631.2	737.0	731.5	727.9
70°	344.8	576.5	671.3	656.7	651.3
72.5°	290.1	521.7	607.5	585.6	587.4
75°	242.6	470.7	538.2	516.3	510.8
77.5°	195.2	417.8	470.7	436.0	428.7
80°	153.2	361.2	394.0	350.3	333.8
82.5°	113.1	299.2	306.5	264.5	253.6
85°	74.8	226.2	213.4	182.4	175.1
87.5°	40.1	133.2	114.9	93.0	87.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)