

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: P183795

Luminaire Tested: **24SR-LD2-53-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183795
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-LD2-53-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: 5903.0 lumens
Efficiency: N/A
Efficacy: 137.0 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

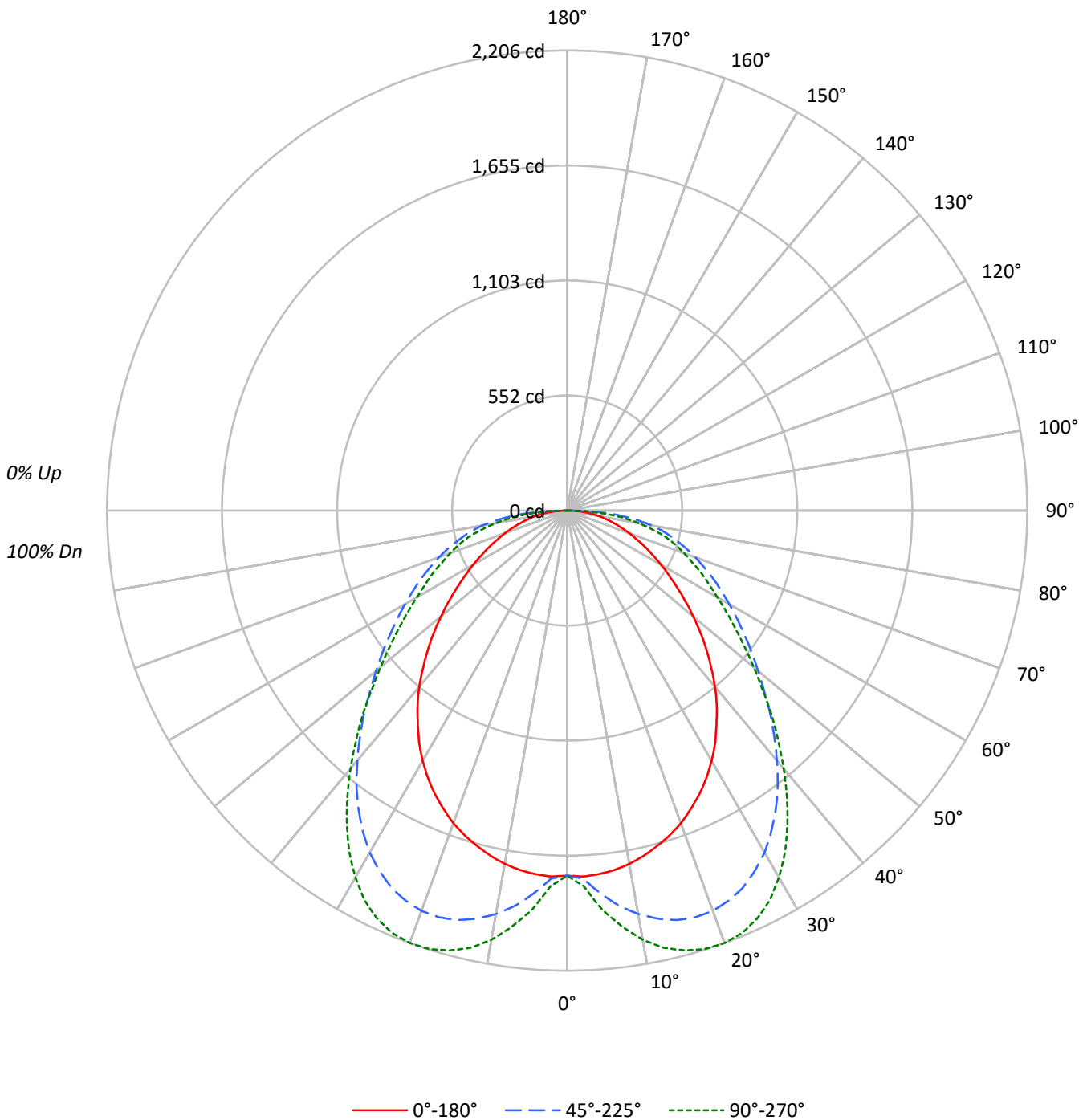
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2354	2354	2354
5°	2363	2489	2592
10°	2350	2683	2854
15°	2320	2831	3041
20°	2283	2924	3158
25°	2227	2960	3203
30°	2152	2941	3154
35°	2050	2864	3023
40°	1937	2748	2836
45°	1799	2620	2639
50°	1650	2502	2443
55°	1513	2431	2308
60°	1400	2414	2241
65°	1309	2458	2259
70°	1245	2570	2348
75°	1205	2788	2547
80°	1219	3202	2687
85°	1277	3734	2925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	3.0
10°-20°	563.1	9.5
20°-30°	888.8	15.1
30°-40°	1041.6	17.6
40°-50°	996.4	16.9
50°-60°	849.1	14.4
60°-70°	681.3	11.5
70°-80°	493.2	8.4
80°-90°	210.6	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°	1630.8	27.6
0°-40°	2672.4	45.3
0°-60°	4517.9	76.5
0°-90°	5903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5903.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1750	1750	1750	1750	1750	
5°	1750	1782	1843	1907	1919	166
15°	1665	1865	2032	2153	2183	470
25°	1500	1788	1994	2129	2157	690
35°	1248	1554	1744	1837	1841	780
45°	946	1222	1377	1395	1387	729
55°	645	919	1036	1008	984	579
65°	411	692	772	722	710	409
75°	232	490	536	494	490	246
85°	83	246	242	200	190	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1749.9	1749.9	1749.9	1749.9	1749.9
2.5°	1756.0	1758.0	1766.1	1800.3	1800.3
5°	1749.9	1782.2	1842.7	1907.2	1919.3
7.5°	1737.8	1810.4	1911.2	1993.9	2010.0
10°	1719.7	1840.7	1963.6	2064.5	2088.6
12.5°	1695.5	1858.8	2004.0	2118.9	2147.1
15°	1665.3	1864.9	2032.2	2153.2	2183.4
17.5°	1633.0	1862.8	2044.3	2173.3	2203.6
20°	1594.7	1846.7	2042.3	2177.4	2205.6
22.5°	1548.3	1824.5	2024.1	2161.2	2191.5
25°	1500.0	1788.3	1993.9	2129.0	2157.2
27.5°	1445.5	1745.9	1947.5	2078.6	2104.8
30°	1385.0	1691.5	1893.1	2010.0	2030.2
32.5°	1320.5	1627.0	1822.5	1929.4	1943.5
35°	1247.9	1554.4	1743.9	1836.6	1840.7
37.5°	1179.4	1475.8	1659.2	1733.8	1731.8
40°	1102.8	1391.1	1564.5	1624.9	1614.9
42.5°	1022.1	1306.4	1469.7	1512.0	1497.9
45°	945.5	1221.7	1377.0	1395.1	1387.1
47.5°	866.9	1137.1	1280.2	1294.3	1270.1
50°	788.3	1060.5	1195.5	1189.5	1167.3
52.5°	715.7	989.9	1114.9	1096.7	1072.5
55°	645.1	919.3	1036.3	1008.0	983.8
57.5°	578.6	856.8	965.7	927.4	905.2
60°	520.1	796.3	897.1	852.8	832.6
62.5°	463.7	741.9	832.6	786.3	766.1
65°	411.3	691.5	772.2	721.8	709.7
67.5°	360.9	641.1	711.7	663.3	649.2
70°	316.5	588.7	653.2	604.8	596.8
72.5°	272.2	540.3	594.7	550.4	544.3
75°	231.8	489.9	536.3	493.9	489.9
77.5°	191.5	435.5	477.8	427.4	417.3
80°	157.3	381.0	413.3	354.8	346.8
82.5°	118.9	314.5	330.6	278.2	274.2
85°	82.7	246.0	241.9	199.6	189.5
87.5°	44.4	147.2	129.0	102.8	98.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)