

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: P183800

Luminaire Tested: **24SR-LD2-59-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183800
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-LD2-59-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: 6567.9 lumens
Efficiency: N/A
Efficacy: 130.8 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

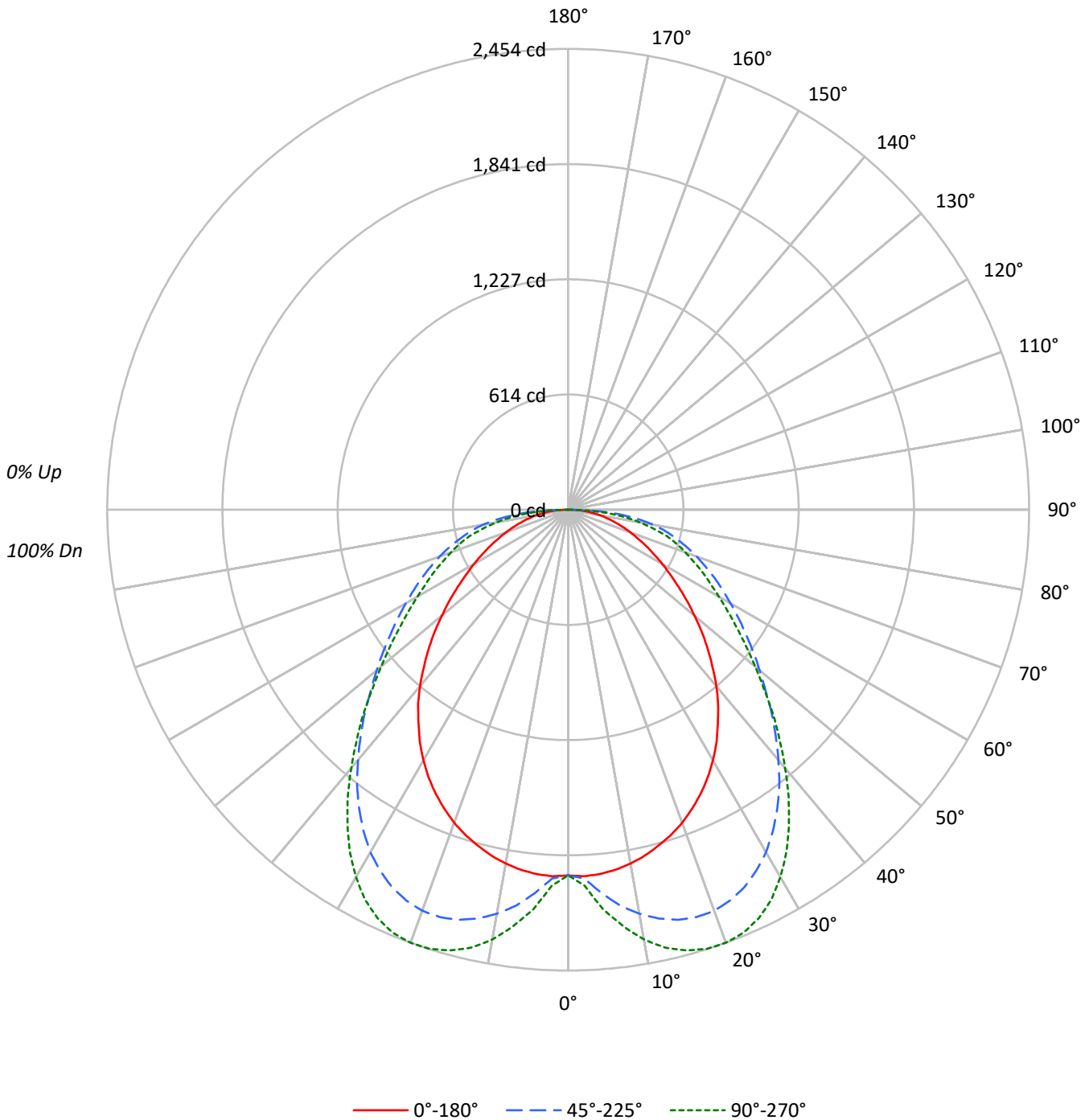
Input Watts (W): 50.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2620	2620	2620
5°	2630	2769	2884
10°	2614	2985	3175
15°	2581	3150	3384
20°	2541	3254	3514
25°	2478	3294	3563
30°	2394	3272	3509
35°	2281	3187	3364
40°	2155	3057	3156
45°	2002	2915	2937
50°	1836	2784	2719
55°	1684	2705	2568
60°	1557	2686	2493
65°	1457	2735	2514
70°	1386	2859	2612
75°	1341	3102	2834
80°	1356	3563	2989
85°	1420	4156	3256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	3.0
10°-20°	626.6	9.5
20°-30°	988.9	15.1
30°-40°	1158.9	17.6
40°-50°	1108.7	16.9
50°-60°	944.7	14.4
60°-70°	758.1	11.5
70°-80°	548.7	8.4
80°-90°	234.3	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°	1814.5	27.6
0°-40°	2973.4	45.3
0°-60°	5026.8	76.5
0°-90°	6567.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6567.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1947	1947	1947	1947	1947	
5°	1947	1983	2050	2122	2136	185
15°	1853	2075	2261	2396	2429	522
25°	1669	1990	2218	2369	2400	767
35°	1388	1730	1940	2044	2048	868
45°	1052	1359	1532	1552	1543	811
55°	718	1023	1153	1122	1095	645
65°	458	769	859	803	790	455
75°	258	545	597	550	545	274
85°	92	274	269	222	211	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1947.1	1947.1	1947.1	1947.1	1947.1
2.5°	1953.8	1956.0	1965.0	2003.1	2003.1
5°	1947.1	1982.9	2050.2	2122.0	2135.5
7.5°	1933.6	2014.3	2126.5	2218.5	2236.4
10°	1913.4	2048.0	2184.8	2297.0	2323.9
12.5°	1886.5	2068.2	2229.7	2357.5	2389.0
15°	1852.8	2074.9	2261.1	2395.7	2429.3
17.5°	1816.9	2072.7	2274.6	2418.1	2451.8
20°	1774.3	2054.7	2272.3	2422.6	2454.0
22.5°	1722.7	2030.0	2252.1	2404.7	2438.3
25°	1668.9	1989.7	2218.5	2368.8	2400.2
27.5°	1608.3	1942.6	2166.9	2312.7	2341.8
30°	1541.0	1882.0	2106.3	2236.4	2258.8
32.5°	1469.3	1810.2	2027.8	2146.7	2162.4
35°	1388.5	1729.5	1940.3	2043.5	2048.0
37.5°	1312.2	1642.0	1846.1	1929.1	1926.9
40°	1227.0	1547.8	1740.7	1808.0	1796.8
42.5°	1137.3	1453.6	1635.3	1682.4	1666.7
45°	1052.0	1359.3	1532.1	1552.3	1543.3
47.5°	964.6	1265.1	1424.4	1440.1	1413.2
50°	877.1	1179.9	1330.2	1323.5	1298.8
52.5°	796.3	1101.4	1240.5	1220.3	1193.4
55°	717.8	1022.9	1153.0	1121.6	1094.7
57.5°	643.8	953.3	1074.5	1031.8	1007.2
60°	578.7	886.0	998.2	948.9	926.4
62.5°	515.9	825.5	926.4	874.8	852.4
65°	457.6	769.4	859.1	803.0	789.6
67.5°	401.5	713.3	791.8	738.0	722.3
70°	352.2	655.0	726.8	672.9	664.0
72.5°	302.8	601.2	661.7	612.4	605.6
75°	258.0	545.1	596.7	549.6	545.1
77.5°	213.1	484.5	531.6	475.5	464.3
80°	175.0	424.0	459.8	394.8	385.8
82.5°	132.3	349.9	367.9	309.6	305.1
85°	92.0	273.7	269.2	222.1	210.9
87.5°	49.3	163.7	143.6	114.4	109.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)