

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: P183838

Luminaire Tested: **24SR-LD2-59-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183838
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-LD2-59-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: 5855.8 lumens
Efficiency: N/A
Efficacy: 116.6 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

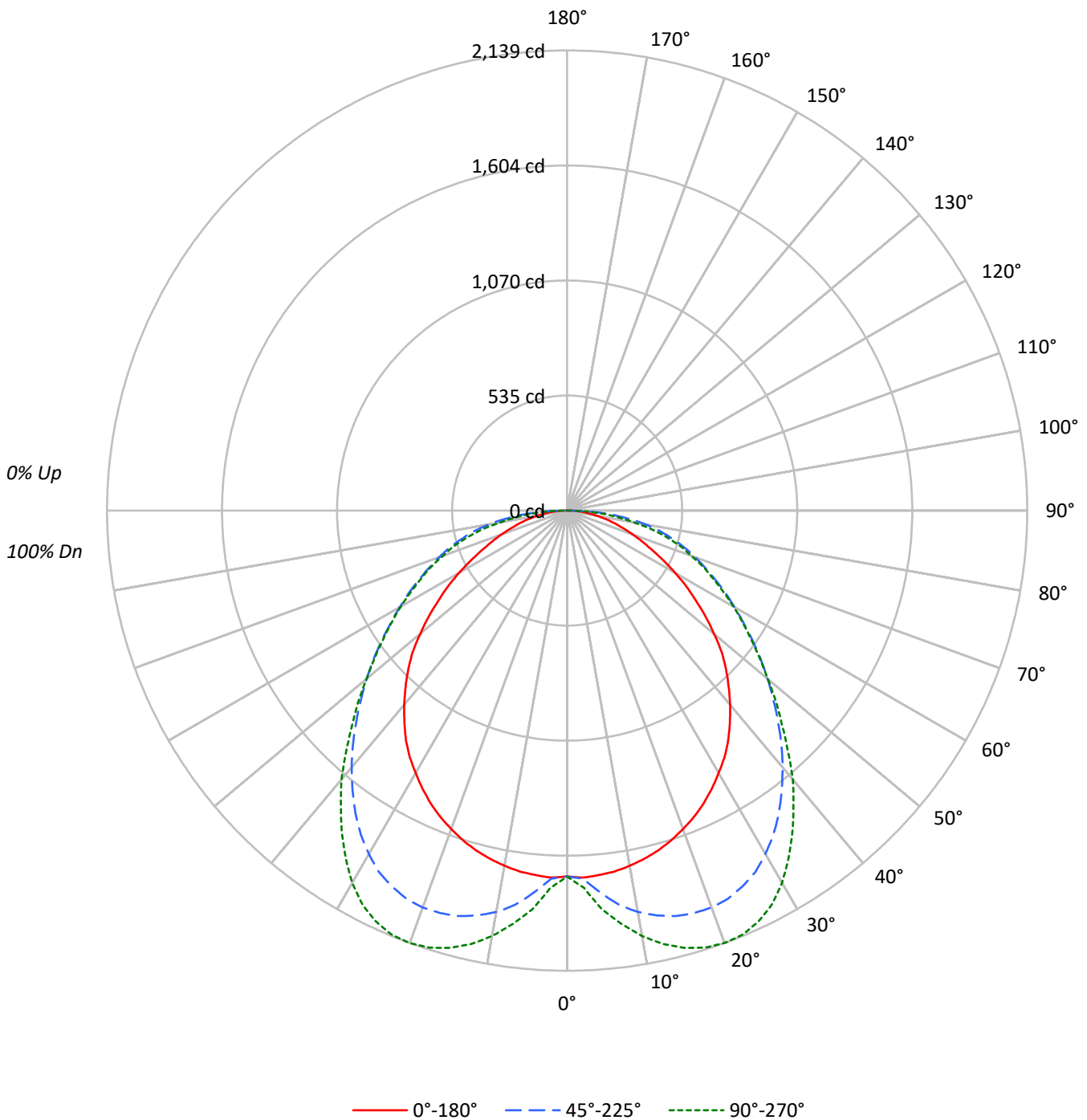
Input Watts (W): 50.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2288	2288	2288
5°	2297	2408	2513
10°	2291	2589	2744
15°	2278	2718	2931
20°	2255	2811	3062
25°	2229	2861	3127
30°	2188	2864	3104
35°	2144	2819	2999
40°	2070	2736	2866
45°	1987	2638	2690
50°	1866	2546	2546
55°	1717	2466	2450
60°	1562	2418	2404
65°	1389	2417	2385
70°	1277	2487	2413
75°	1188	2635	2501
80°	1118	2875	2436
85°	1087	3103	2546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	3.0
10°-20°	544.2	9.3
20°-30°	866.6	14.8
30°-40°	1033.5	17.6
40°-50°	1018.1	17.4
50°-60°	879.2	15.0
60°-70°	686.2	11.7
70°-80°	470.2	8.0
80°-90°	184.5	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°	1584.0	27.1
0°-40°	2617.5	44.7
0°-60°	4514.9	77.1
0°-90°	5855.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5855.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1701	1732	1783	1850	1860	162
15°	1635	1809	1951	2073	2104	461
25°	1501	1738	1927	2073	2106	691
35°	1306	1527	1716	1814	1826	814
45°	1044	1235	1386	1426	1414	803
55°	732	928	1051	1055	1044	656
65°	436	653	759	756	749	439
75°	228	443	507	486	481	243
85°	70	213	201	172	165	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1700.6	1700.6	1700.6	1700.6	1700.6
2.5°	1707.5	1709.2	1712.6	1747.0	1753.9
5°	1700.6	1731.5	1783.1	1850.1	1860.4
7.5°	1692.0	1760.7	1848.3	1920.5	1937.7
10°	1676.6	1789.9	1894.7	1985.8	2008.1
12.5°	1657.7	1805.4	1927.4	2033.9	2063.1
15°	1635.3	1808.8	1951.4	2073.4	2104.3
17.5°	1607.9	1803.7	1961.7	2095.7	2130.1
20°	1575.2	1789.9	1963.4	2104.3	2138.7
22.5°	1540.9	1769.3	1953.1	2097.4	2133.5
25°	1501.4	1738.4	1927.4	2073.4	2106.0
27.5°	1456.7	1695.5	1894.7	2032.2	2063.1
30°	1408.6	1645.6	1843.2	1972.0	1997.8
32.5°	1360.5	1590.7	1784.8	1899.9	1915.3
35°	1305.5	1527.1	1716.1	1814.0	1826.0
37.5°	1242.0	1463.6	1638.8	1724.7	1728.1
40°	1178.4	1386.3	1558.0	1621.6	1631.9
42.5°	1111.4	1310.7	1473.9	1527.1	1520.3
45°	1044.4	1235.1	1386.3	1425.8	1413.7
47.5°	974.0	1157.8	1300.4	1326.1	1317.6
50°	891.5	1080.5	1216.2	1229.9	1216.2
52.5°	812.5	1006.6	1133.7	1140.6	1128.6
55°	731.8	927.6	1051.3	1054.7	1044.4
57.5°	657.9	853.7	972.3	972.3	967.1
60°	580.6	779.9	898.4	895.0	893.3
62.5°	506.8	714.6	829.7	824.5	819.4
65°	436.3	652.8	759.3	755.8	749.0
67.5°	377.9	594.4	694.0	688.8	685.4
70°	324.7	542.8	632.1	618.4	613.3
72.5°	273.1	491.3	572.0	551.4	553.1
75°	228.5	443.2	506.8	486.1	481.0
77.5°	183.8	393.4	443.2	410.6	403.7
80°	144.3	340.1	371.0	329.8	314.4
82.5°	106.5	281.7	288.6	249.1	238.8
85°	70.4	213.0	201.0	171.8	164.9
87.5°	37.8	125.4	108.2	87.6	82.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)