

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: P393638

Luminaire Tested: **24EN-LD2-67-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-67-UNV-L82765-W2A-1-U (4500K)
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6403.1 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

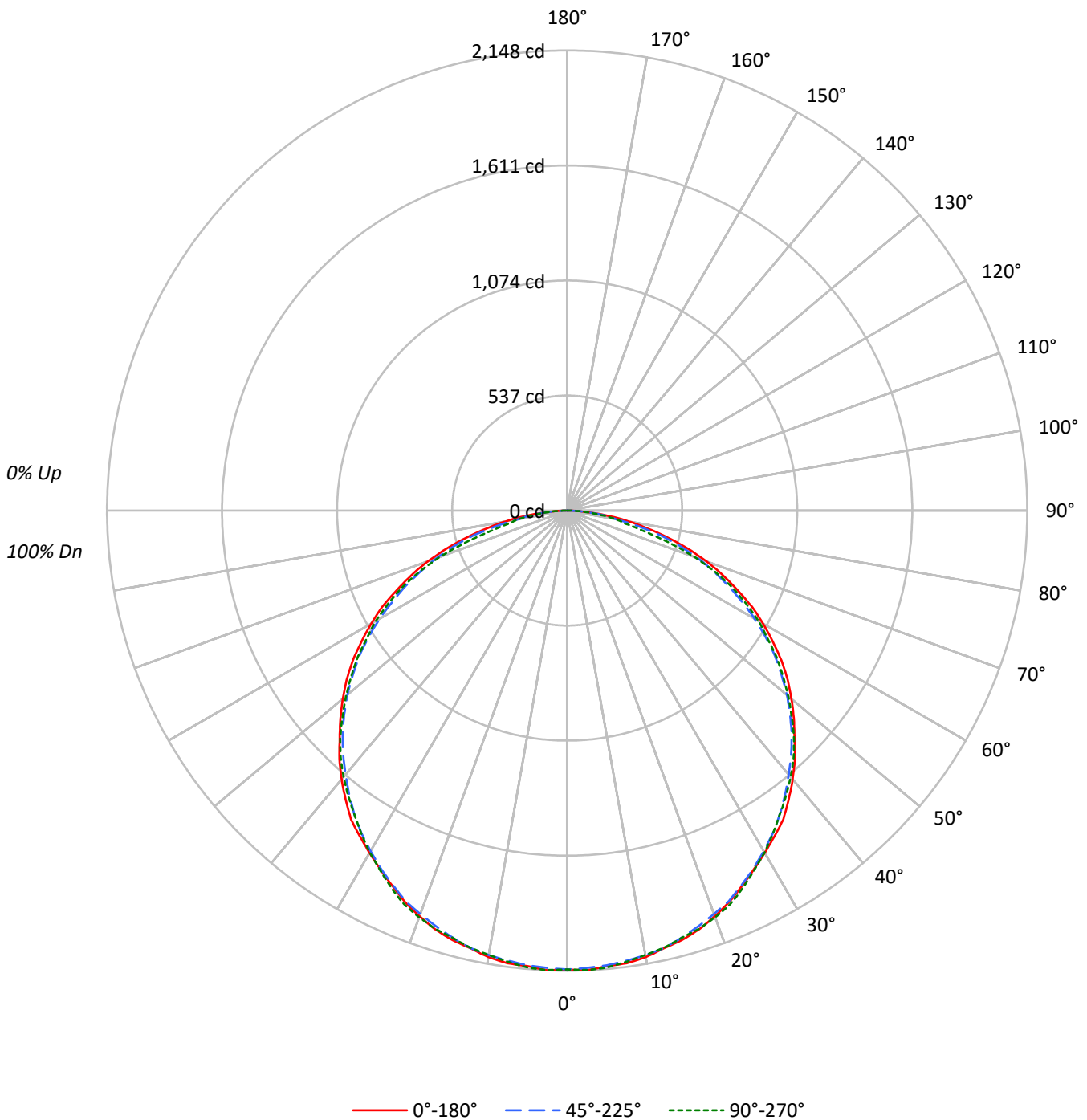
Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
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	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2882	2882	2882
5°	2883	2878	2892
10°	2892	2879	2878
15°	2890	2875	2876
20°	2885	2869	2893
25°	2869	2862	2884
30°	2866	2851	2863
35°	2890	2844	2844
40°	2877	2826	2852
45°	2857	2820	2850
50°	2861	2803	2819
55°	2865	2780	2800
60°	2842	2720	2780
65°	2787	2643	2710
70°	2717	2550	2486
75°	2525	2370	1915
80°	2280	1811	1804
85°	1826	1663	1514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	3.2
10°-20°	583.4	9.1
20°-30°	890.9	13.9
30°-40°	1085.6	17.0
40°-50°	1149.3	17.9
50°-60°	1064.7	16.6
60°-70°	836.0	13.1
70°-80°	466.0	7.3
80°-90°	124.3	1.9
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°	1677.1	26.2
0°-40°	2762.7	43.1
0°-60°	4976.8	77.7
0°-90°	6403.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6403.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2142	2142	2142	2142	2142	
5°	2134	2138	2130	2128	2141	203
15°	2075	2067	2064	2060	2065	586
25°	1932	1934	1928	1930	1943	892
35°	1759	1738	1731	1724	1731	1097
45°	1501	1498	1482	1484	1498	1161
55°	1222	1201	1185	1178	1194	1089
65°	875	857	830	841	851	868
75°	486	469	456	392	368	515
85°	118	109	108	99	98	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2142.0	2142.0	2142.0	2142.0	2142.0
2.5°	2147.8	2138.1	2137.2	2139.1	2146.8
5°	2134.3	2138.1	2130.5	2127.6	2141.0
7.5°	2131.4	2129.5	2118.9	2112.2	2123.7
10°	2117.0	2114.1	2107.4	2096.8	2106.4
12.5°	2092.0	2093.9	2091.0	2079.5	2090.1
15°	2074.7	2067.0	2064.1	2060.2	2065.0
17.5°	2049.7	2034.3	2035.2	2041.0	2046.8
20°	2015.0	2001.6	2003.5	2014.1	2020.8
22.5°	1977.5	1971.8	1972.7	1976.6	1989.1
25°	1932.3	1934.2	1927.5	1930.4	1942.9
27.5°	1888.1	1894.8	1883.3	1880.4	1891.0
30°	1844.8	1847.7	1835.2	1828.4	1842.9
32.5°	1801.5	1794.8	1786.1	1776.5	1788.0
35°	1759.2	1738.0	1731.3	1723.6	1731.3
37.5°	1698.6	1681.3	1670.7	1671.7	1678.4
40°	1638.0	1618.8	1609.1	1616.8	1623.6
42.5°	1573.6	1556.2	1547.6	1553.4	1564.9
45°	1501.4	1498.5	1482.2	1484.1	1497.6
47.5°	1435.0	1431.2	1412.0	1412.0	1421.6
50°	1366.8	1356.2	1338.9	1333.1	1346.6
52.5°	1297.5	1279.2	1261.0	1259.0	1270.6
55°	1221.5	1201.3	1185.0	1178.2	1193.6
57.5°	1138.8	1119.6	1098.4	1098.4	1108.0
60°	1056.1	1033.0	1010.9	1011.8	1033.0
62.5°	972.4	949.3	918.5	924.3	941.6
65°	875.3	857.0	830.1	840.6	851.2
67.5°	785.8	765.6	737.7	747.3	747.3
70°	690.6	664.6	648.3	637.7	631.9
72.5°	590.6	566.5	555.0	516.5	500.2
75°	485.7	469.4	455.9	391.5	368.4
77.5°	385.7	377.0	340.5	284.7	271.2
80°	294.3	287.6	233.7	231.8	232.8
82.5°	201.0	193.3	178.9	167.4	161.6
85°	118.3	108.7	107.7	99.1	98.1
87.5°	39.4	43.3	45.2	44.2	45.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)