

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: P393640

Luminaire Tested: **24EN-LD2-67-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393640  
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 (5700K)  
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6416.3 lumens  
Efficiency: N/A  
Efficacy: 134.0 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

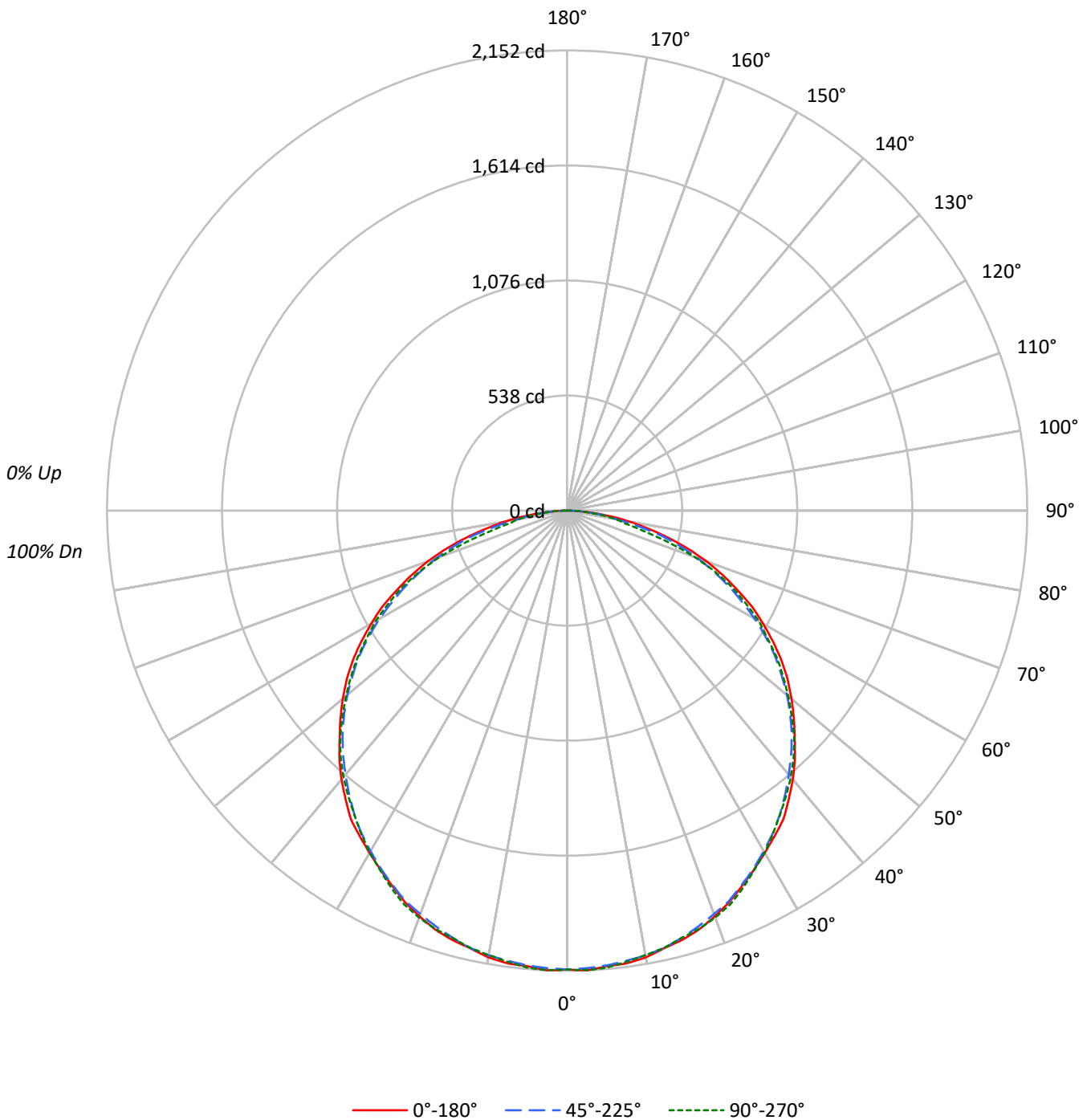
Input Watts (W): 47.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2888	2888	2888
5°	2889	2883	2898
10°	2898	2885	2884
15°	2896	2881	2882
20°	2891	2875	2899
25°	2875	2867	2890
30°	2872	2857	2869
35°	2895	2850	2850
40°	2883	2832	2858
45°	2863	2826	2856
50°	2867	2808	2824
55°	2871	2785	2806
60°	2848	2726	2785
65°	2792	2648	2716
70°	2722	2555	2491
75°	2530	2375	1919
80°	2285	1815	1807
85°	1829	1666	1518



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.2	3.2
10°-20°	584.6	9.1
20°-30°	892.8	13.9
30°-40°	1087.8	17.0
40°-50°	1151.7	17.9
50°-60°	1066.9	16.6
60°-70°	837.7	13.1
70°-80°	467.0	7.3
80°-90°	124.6	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°	1680.6	26.2
0°-40°	2768.4	43.1
0°-60°	4987.1	77.7
0°-90°	6416.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6416.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2146	2146	2146	2146	2146	
5°	2139	2143	2135	2132	2146	204
15°	2079	2071	2068	2064	2069	587
25°	1936	1938	1932	1934	1947	894
35°	1763	1742	1735	1727	1735	1099
45°	1504	1502	1485	1487	1501	1164
55°	1224	1204	1187	1181	1196	1092
65°	877	859	832	842	853	870
75°	487	470	457	392	369	516
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°	2146.4	2146.4	2146.4	2146.4	2146.4
2.5°	2152.2	2142.6	2141.6	2143.5	2151.2
5°	2138.7	2142.6	2134.9	2132.0	2145.5
7.5°	2135.8	2133.9	2123.3	2116.5	2128.1
10°	2121.4	2118.5	2111.7	2101.1	2110.8
12.5°	2096.3	2098.2	2095.3	2083.8	2094.4
15°	2079.0	2071.2	2068.4	2064.5	2069.3
17.5°	2053.9	2038.5	2039.4	2045.2	2051.0
20°	2019.2	2005.7	2007.6	2018.2	2025.0
22.5°	1981.6	1975.8	1976.8	1980.6	1993.2
25°	1936.3	1938.2	1931.5	1934.4	1946.9
27.5°	1892.0	1898.7	1887.2	1884.3	1894.9
30°	1848.6	1851.5	1839.0	1832.2	1846.7
32.5°	1805.2	1798.5	1789.8	1780.2	1791.7
35°	1762.8	1741.6	1734.9	1727.2	1734.9
37.5°	1702.1	1684.8	1674.1	1675.1	1681.9
40°	1641.4	1622.1	1612.5	1620.2	1626.9
42.5°	1576.8	1559.5	1550.8	1556.6	1568.1
45°	1504.5	1501.6	1485.2	1487.2	1500.7
47.5°	1438.0	1434.2	1414.9	1414.9	1424.5
50°	1369.6	1359.0	1341.6	1335.8	1349.3
52.5°	1300.2	1281.9	1263.6	1261.6	1273.2
55°	1224.0	1203.8	1187.4	1180.7	1196.1
57.5°	1141.2	1121.9	1100.7	1100.7	1110.3
60°	1058.3	1035.1	1013.0	1013.9	1035.1
62.5°	974.4	951.3	920.4	926.2	943.6
65°	877.1	858.8	831.8	842.4	853.0
67.5°	787.4	767.2	739.2	748.9	748.9
70°	692.0	666.0	649.6	639.0	633.2
72.5°	591.8	567.7	556.1	517.6	501.2
75°	486.7	470.3	456.8	392.3	369.1
77.5°	386.5	377.8	341.2	285.3	271.8
80°	294.9	288.2	234.2	232.3	233.2
82.5°	201.4	193.7	179.3	167.7	161.9
85°	118.5	108.9	107.9	99.3	98.3
87.5°	39.5	43.4	45.3	44.3	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)