

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: P393639

Luminaire Tested: **24EN-LD2-67-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393639  
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 (5000K)  
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: 6392.7 lumens  
Efficiency: N/A  
Efficacy: 132.9 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

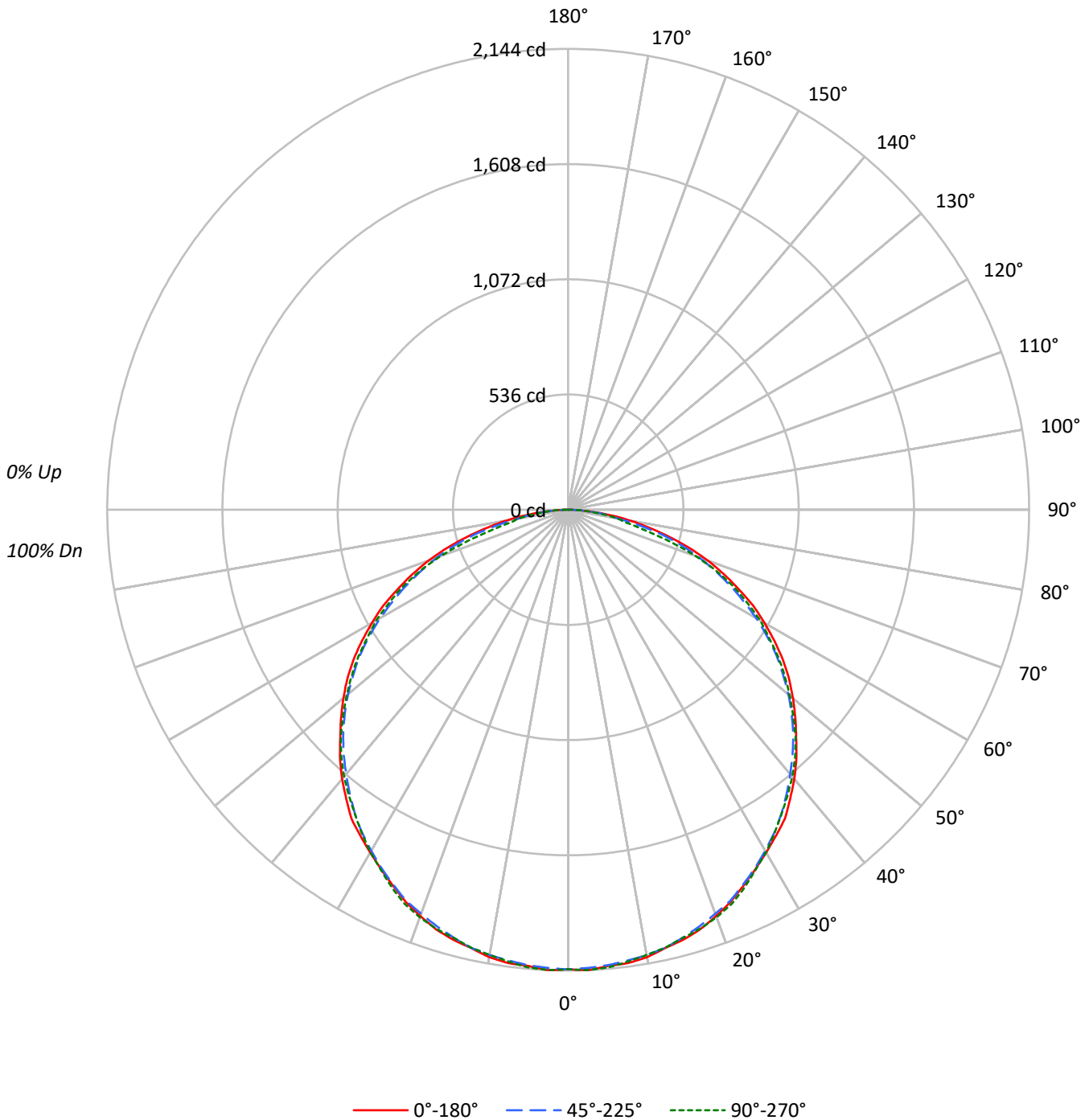
Input Watts (W): 48.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2877	2877	2877
5°	2878	2873	2887
10°	2888	2875	2873
15°	2885	2870	2872
20°	2881	2864	2889
25°	2864	2857	2880
30°	2861	2847	2859
35°	2885	2839	2839
40°	2872	2822	2847
45°	2852	2816	2845
50°	2856	2798	2814
55°	2861	2775	2795
60°	2837	2716	2775
65°	2782	2638	2706
70°	2712	2546	2482
75°	2521	2366	1912
80°	2276	1808	1801
85°	1823	1661	1511



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.5	3.2
10°-20°	582.4	9.1
20°-30°	889.5	13.9
30°-40°	1083.8	17.0
40°-50°	1147.5	17.9
50°-60°	1063.0	16.6
60°-70°	834.7	13.1
70°-80°	465.2	7.3
80°-90°	124.1	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°	1674.4	26.2
0°-40°	2758.2	43.1
0°-60°	4968.7	77.7
0°-90°	6392.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6392.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2138	2138	2138	2138	2138	
5°	2131	2135	2127	2124	2138	203
15°	2071	2064	2061	2057	2062	585
25°	1929	1931	1924	1927	1940	890
35°	1756	1735	1728	1721	1728	1095
45°	1499	1496	1480	1482	1495	1159
55°	1220	1199	1183	1176	1192	1088
65°	874	856	829	839	850	866
75°	485	469	455	391	368	515
85°	118	108	108	99	98	137
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2138.5	2138.5	2138.5	2138.5	2138.5
2.5°	2144.3	2134.7	2133.7	2135.6	2143.3
5°	2130.8	2134.7	2127.0	2124.1	2137.6
7.5°	2128.0	2126.0	2115.5	2108.8	2120.3
10°	2113.6	2110.7	2104.0	2093.4	2103.0
12.5°	2088.6	2090.5	2087.6	2076.1	2086.7
15°	2071.3	2063.6	2060.7	2056.9	2061.7
17.5°	2046.3	2031.0	2031.9	2037.7	2043.5
20°	2011.8	1998.3	2000.2	2010.8	2017.5
22.5°	1974.3	1968.6	1969.5	1973.4	1985.8
25°	1929.2	1931.1	1924.4	1927.3	1939.8
27.5°	1885.0	1891.7	1880.2	1877.3	1887.9
30°	1841.8	1844.7	1832.2	1825.5	1839.9
32.5°	1798.6	1791.9	1783.2	1773.6	1785.1
35°	1756.3	1735.2	1728.5	1720.8	1728.5
37.5°	1695.8	1678.6	1668.0	1669.0	1675.7
40°	1635.3	1616.1	1606.5	1614.2	1620.9
42.5°	1571.0	1553.7	1545.1	1550.8	1562.4
45°	1499.0	1496.1	1479.8	1481.7	1495.1
47.5°	1432.7	1428.9	1409.7	1409.7	1419.3
50°	1364.5	1354.0	1336.7	1330.9	1344.4
52.5°	1295.4	1277.2	1258.9	1257.0	1268.5
55°	1219.5	1199.4	1183.1	1176.3	1191.7
57.5°	1137.0	1117.8	1096.6	1096.6	1106.2
60°	1054.4	1031.3	1009.2	1010.2	1031.3
62.5°	970.8	947.8	917.1	922.8	940.1
65°	873.8	855.6	828.7	839.3	849.8
67.5°	784.5	764.4	736.5	746.1	746.1
70°	689.5	663.5	647.2	636.7	630.9
72.5°	589.6	565.6	554.1	515.7	499.3
75°	484.9	468.6	455.2	390.8	367.8
77.5°	385.1	376.4	339.9	284.2	270.8
80°	293.8	287.1	233.3	231.4	232.4
82.5°	200.7	193.0	178.6	167.1	161.3
85°	118.1	108.5	107.6	98.9	97.9
87.5°	39.4	43.2	45.1	44.2	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)