

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: P393649

Luminaire Tested: **24EN-LD2-67-UNV-L83050-W2A-1-U (6500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393649  
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-L83050-W2A-1-U (6500K)  
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6782.8 lumens  
Efficiency: N/A  
Efficacy: 141.0 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

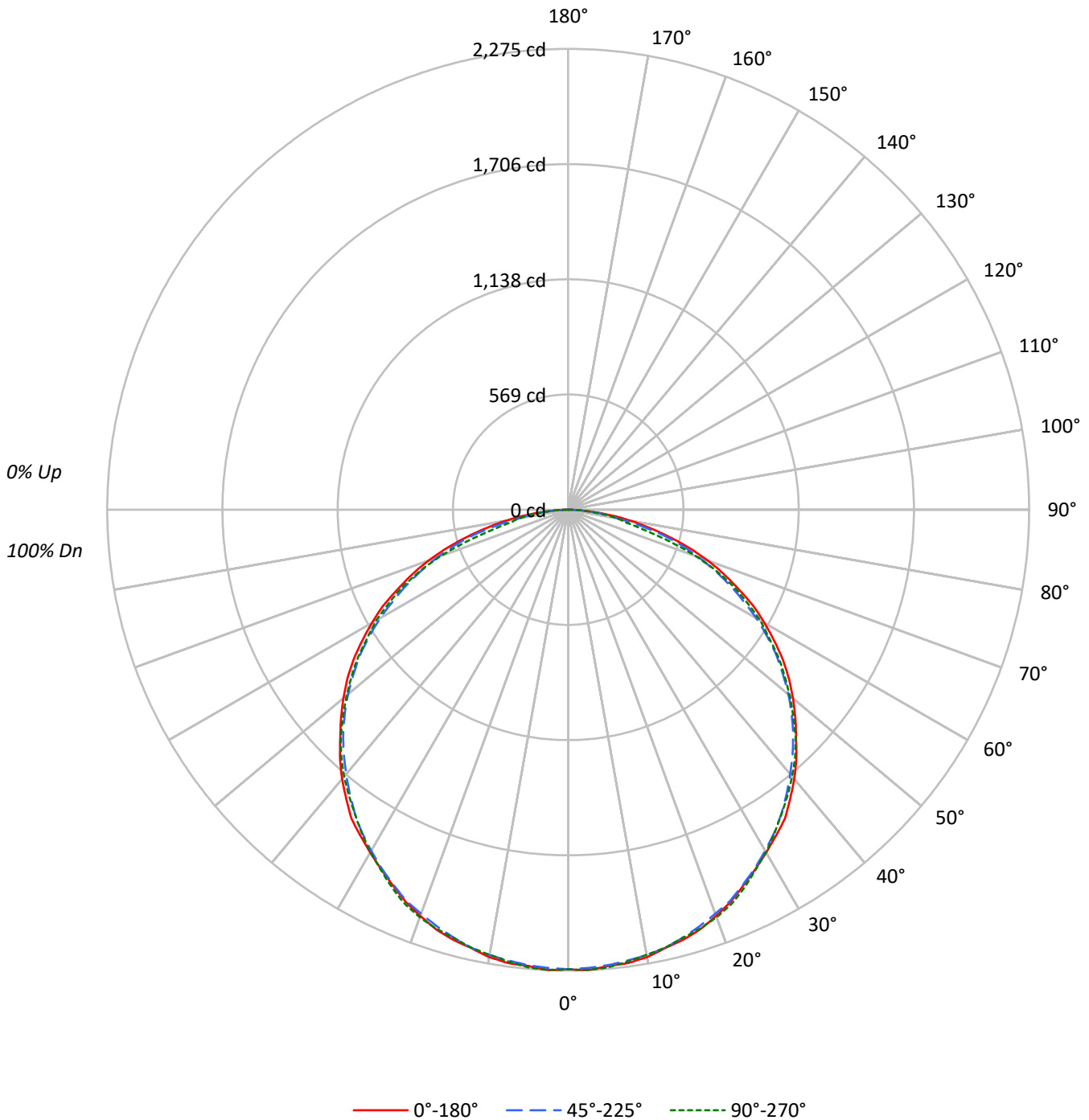
Input Watts (W): 48.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3053	3053	3053
5°	3054	3048	3063
10°	3064	3050	3049
15°	3061	3046	3047
20°	3056	3039	3065
25°	3039	3031	3055
30°	3036	3020	3033
35°	3061	3012	3012
40°	3048	2994	3021
45°	3026	2988	3019
50°	3031	2969	2986
55°	3035	2944	2966
60°	3010	2882	2945
65°	2952	2799	2871
70°	2878	2701	2633
75°	2675	2510	2028
80°	2416	1918	1911
85°	1934	1761	1604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.8	3.2
10°-20°	618.0	9.1
20°-30°	943.8	13.9
30°-40°	1149.9	17.0
40°-50°	1217.5	17.9
50°-60°	1127.9	16.6
60°-70°	885.6	13.1
70°-80°	493.6	7.3
80°-90°	131.7	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°	1776.6	26.2
0°-40°	2926.5	43.1
0°-60°	5271.9	77.7
0°-90°	6782.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6782.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2269	2269	2269	2269	2269	
5°	2261	2265	2257	2254	2268	216
15°	2198	2190	2186	2182	2188	620
25°	2047	2049	2042	2045	2058	945
35°	1864	1841	1834	1826	1834	1162
45°	1590	1587	1570	1572	1586	1230
55°	1294	1273	1255	1248	1264	1154
65°	927	908	879	890	902	919
75°	514	497	483	415	390	546
85°	125	115	114	105	104	146
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2269.0	2269.0	2269.0	2269.0	2269.0
2.5°	2275.1	2264.9	2263.9	2266.0	2274.1
5°	2260.9	2264.9	2256.8	2253.7	2268.0
7.5°	2257.8	2255.8	2244.6	2237.4	2249.7
10°	2242.5	2239.5	2232.3	2221.1	2231.3
12.5°	2216.0	2218.1	2215.0	2202.8	2214.0
15°	2197.7	2189.5	2186.5	2182.4	2187.5
17.5°	2171.2	2154.9	2155.9	2162.0	2168.1
20°	2134.5	2120.3	2122.3	2133.5	2140.6
22.5°	2094.8	2088.7	2089.7	2093.8	2107.0
25°	2046.9	2048.9	2041.8	2044.9	2058.1
27.5°	2000.0	2007.2	1994.9	1991.9	2003.1
30°	1954.2	1957.2	1944.0	1936.9	1952.1
32.5°	1908.3	1901.2	1892.0	1881.8	1894.1
35°	1863.5	1841.1	1834.0	1825.8	1834.0
37.5°	1799.3	1781.0	1769.8	1770.8	1777.9
40°	1735.1	1714.7	1704.6	1712.7	1719.8
42.5°	1666.9	1648.5	1639.4	1645.5	1657.7
45°	1590.4	1587.4	1570.1	1572.1	1586.4
47.5°	1520.1	1516.1	1495.7	1495.7	1505.9
50°	1447.8	1436.6	1418.3	1412.1	1426.4
52.5°	1374.4	1355.1	1335.7	1333.7	1345.9
55°	1294.0	1272.6	1255.2	1248.1	1264.4
57.5°	1206.3	1186.0	1163.5	1163.5	1173.7
60°	1118.7	1094.3	1070.8	1071.8	1094.3
62.5°	1030.1	1005.6	973.0	979.1	997.5
65°	927.2	907.8	879.3	890.5	901.7
67.5°	832.4	811.0	781.5	791.7	791.7
70°	731.5	704.0	686.7	675.5	669.4
72.5°	625.6	600.1	587.9	547.1	529.8
75°	514.5	497.2	482.9	414.7	390.2
77.5°	408.6	399.4	360.7	301.6	287.3
80°	311.8	304.6	247.6	245.5	246.6
82.5°	212.9	204.8	189.5	177.3	171.2
85°	125.3	115.1	114.1	104.9	103.9
87.5°	41.8	45.8	47.9	46.9	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)