

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: P393645

Luminaire Tested: **24EN-LD2-67-UNV-L83050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393645
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 (4000K)
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6685.5 lumens
Efficiency: N/A
Efficacy: 137.3 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

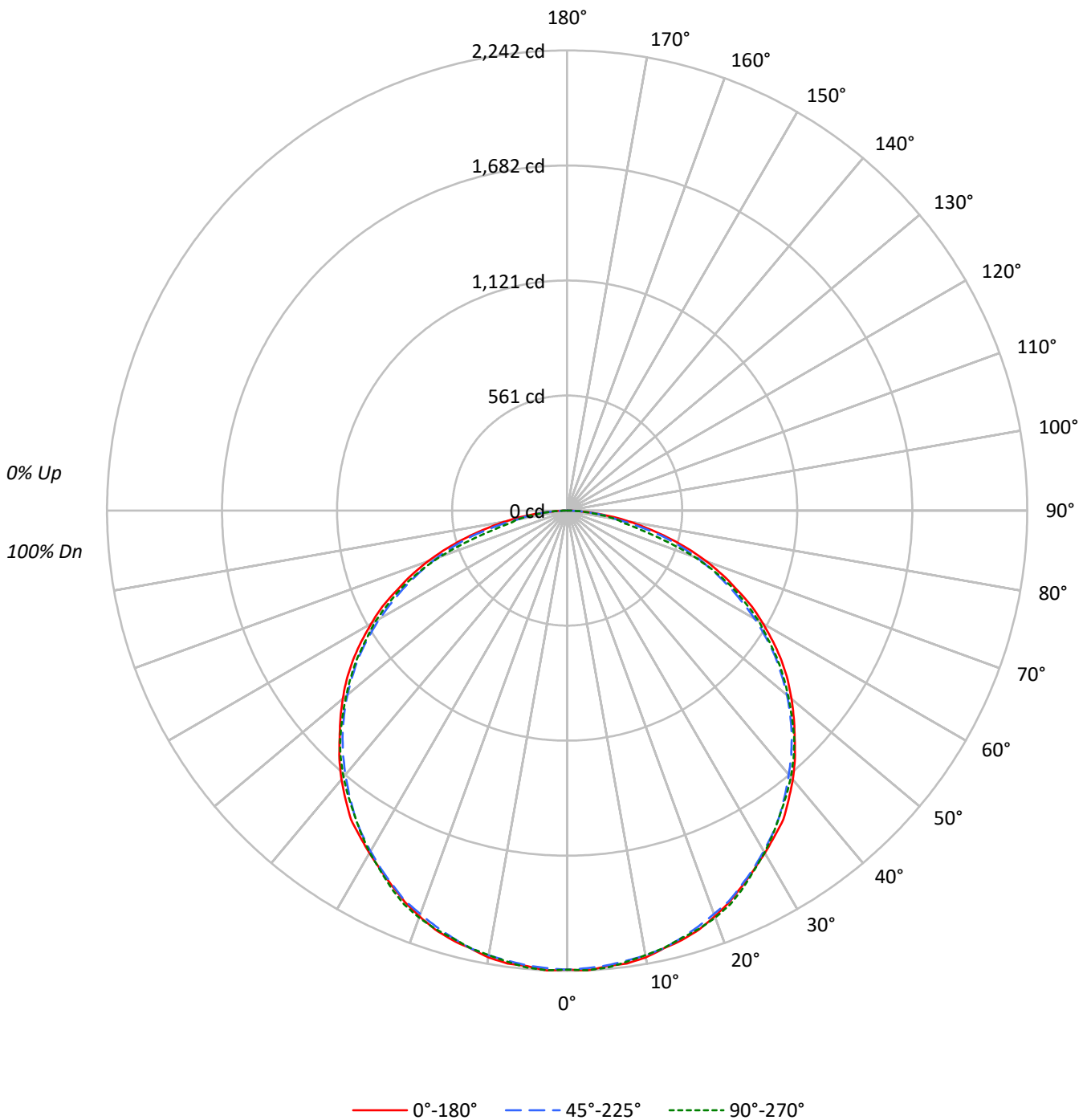
Input Watts (W): 48.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3009	3009	3009
5°	3010	3004	3019
10°	3020	3006	3005
15°	3017	3002	3003
20°	3012	2995	3021
25°	2995	2988	3012
30°	2993	2977	2989
35°	3017	2969	2969
40°	3004	2951	2977
45°	2983	2945	2975
50°	2987	2926	2943
55°	2992	2902	2924
60°	2967	2840	2902
65°	2910	2759	2830
70°	2837	2663	2596
75°	2636	2475	1999
80°	2381	1891	1883
85°	1907	1737	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	3.2
10°-20°	609.1	9.1
20°-30°	930.2	13.9
30°-40°	1133.5	17.0
40°-50°	1200.0	17.9
50°-60°	1111.7	16.6
60°-70°	872.9	13.1
70°-80°	486.6	7.3
80°-90°	129.8	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°	1751.1	26.2
0°-40°	2884.5	43.1
0°-60°	5196.3	77.7
0°-90°	6685.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6685.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2236	2236	2236	2236	2236	
5°	2228	2232	2224	2221	2236	212
15°	2166	2158	2155	2151	2156	611
25°	2018	2020	2012	2016	2029	931
35°	1837	1815	1808	1800	1808	1145
45°	1568	1565	1548	1550	1564	1212
55°	1275	1254	1237	1230	1246	1137
65°	914	895	867	878	889	906
75°	507	490	476	409	385	538
85°	124	114	112	103	102	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2236.5	2236.5	2236.5	2236.5	2236.5
2.5°	2242.5	2232.5	2231.4	2233.5	2241.5
5°	2228.4	2232.5	2224.4	2221.4	2235.5
7.5°	2225.4	2223.4	2212.4	2205.3	2217.4
10°	2210.4	2207.3	2200.3	2189.3	2199.3
12.5°	2184.2	2186.3	2183.2	2171.2	2182.2
15°	2166.2	2158.1	2155.1	2151.1	2156.1
17.5°	2140.1	2124.0	2125.0	2131.0	2137.0
20°	2103.9	2089.8	2091.9	2102.9	2109.9
22.5°	2064.7	2058.7	2059.7	2063.7	2076.8
25°	2017.5	2019.6	2012.5	2015.5	2028.6
27.5°	1971.3	1978.4	1966.3	1963.3	1974.4
30°	1926.2	1929.2	1916.1	1909.1	1924.1
32.5°	1881.0	1873.9	1864.9	1854.9	1866.9
35°	1836.8	1814.7	1807.7	1799.6	1807.7
37.5°	1773.5	1755.4	1744.4	1745.4	1752.4
40°	1710.2	1690.2	1680.1	1688.1	1695.2
42.5°	1643.0	1624.9	1615.8	1621.9	1633.9
45°	1567.6	1564.6	1547.6	1549.6	1563.6
47.5°	1498.3	1494.3	1474.2	1474.2	1484.3
50°	1427.0	1416.0	1397.9	1391.9	1406.0
52.5°	1354.7	1335.7	1316.6	1314.6	1326.6
55°	1275.4	1254.3	1237.2	1230.2	1246.3
57.5°	1189.0	1168.9	1146.9	1146.9	1156.9
60°	1102.7	1078.6	1055.5	1056.5	1078.6
62.5°	1015.3	991.2	959.1	965.1	983.2
65°	913.9	894.8	866.7	877.7	888.8
67.5°	820.5	799.4	770.3	780.3	780.3
70°	721.1	693.9	676.9	665.8	659.8
72.5°	616.6	591.5	579.5	539.3	522.2
75°	507.1	490.1	476.0	408.7	384.6
77.5°	402.7	393.7	355.5	297.3	283.2
80°	307.3	300.3	244.0	242.0	243.0
82.5°	209.9	201.9	186.8	174.7	168.7
85°	123.5	113.5	112.5	103.4	102.4
87.5°	41.2	45.2	47.2	46.2	47.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)