

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: P393643

Luminaire Tested: **24EN-LD2-67-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393643
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 (3000K)
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: 6550.3 lumens
Efficiency: N/A
Efficacy: 133.4 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

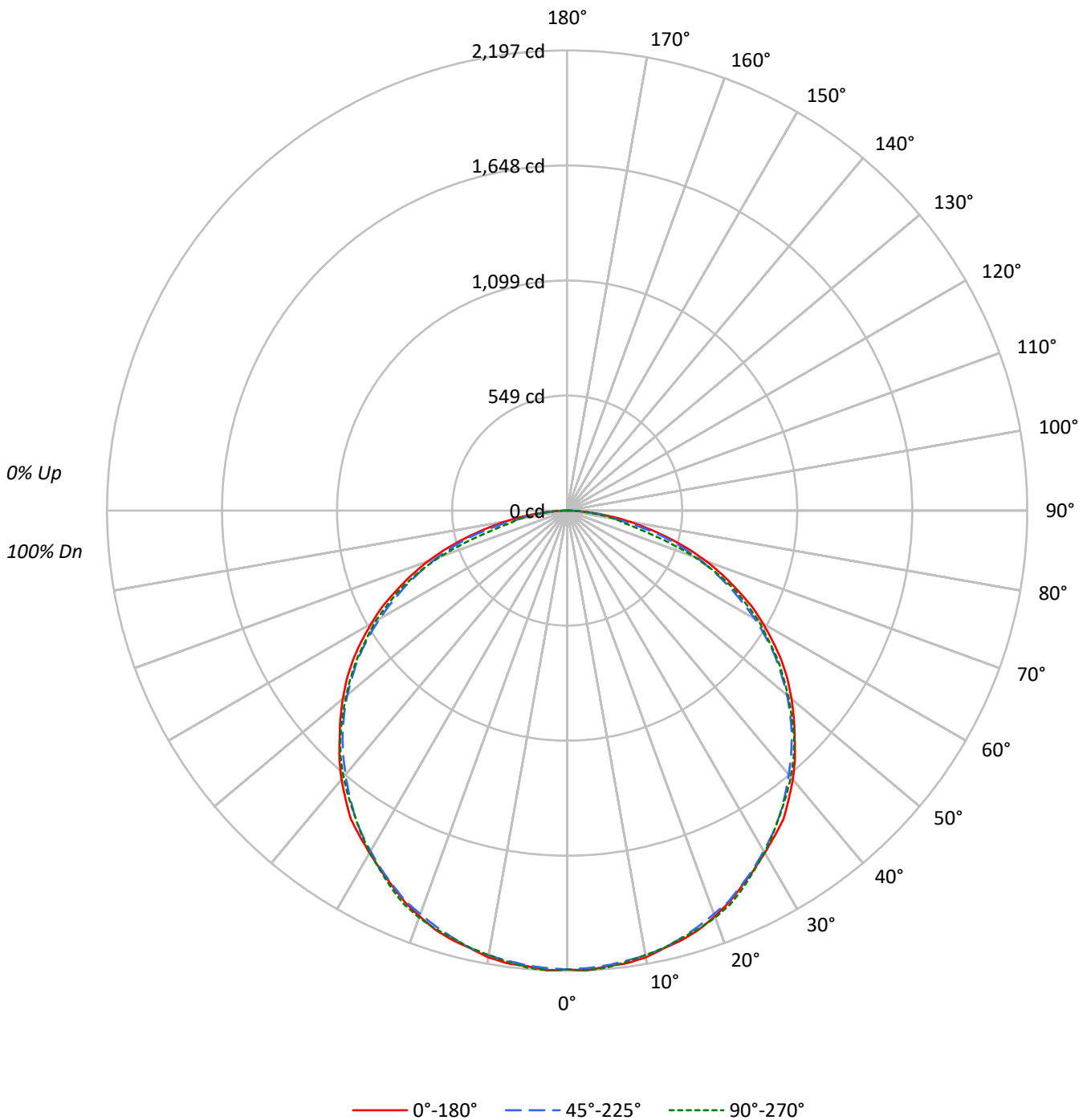
Input Watts (W): 49.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2948	2948	2948
5°	2949	2944	2958
10°	2959	2945	2944
15°	2956	2941	2943
20°	2952	2935	2960
25°	2935	2927	2951
30°	2932	2917	2929
35°	2956	2909	2909
40°	2943	2891	2917
45°	2923	2885	2915
50°	2927	2867	2883
55°	2931	2844	2864
60°	2907	2783	2844
65°	2851	2703	2772
70°	2779	2609	2543
75°	2583	2425	1959
80°	2333	1853	1845
85°	1868	1701	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	3.2
10°-20°	596.8	9.1
20°-30°	911.4	13.9
30°-40°	1110.5	17.0
40°-50°	1175.7	17.9
50°-60°	1089.2	16.6
60°-70°	855.3	13.1
70°-80°	476.7	7.3
80°-90°	127.2	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°	1715.7	26.2
0°-40°	2826.2	43.1
0°-60°	5091.2	77.7
0°-90°	6550.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6550.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2191	2191	2191	2191	2191	
5°	2183	2187	2179	2176	2190	208
15°	2122	2114	2112	2108	2112	599
25°	1977	1979	1972	1975	1988	912
35°	1800	1778	1771	1763	1771	1122
45°	1536	1533	1516	1518	1532	1188
55°	1250	1229	1212	1205	1221	1114
65°	895	877	849	860	871	888
75°	497	480	466	400	377	527
85°	121	111	110	101	100	141
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2191.2	2191.2	2191.2	2191.2	2191.2
2.5°	2197.2	2187.3	2186.3	2188.3	2196.2
5°	2183.4	2187.3	2179.4	2176.5	2190.3
7.5°	2180.4	2178.5	2167.6	2160.7	2172.6
10°	2165.7	2162.7	2155.8	2145.0	2154.8
12.5°	2140.1	2142.1	2139.1	2127.3	2138.1
15°	2122.4	2114.5	2111.5	2107.6	2112.5
17.5°	2096.8	2081.0	2082.0	2087.9	2093.8
20°	2061.4	2047.6	2049.6	2060.4	2067.3
22.5°	2023.0	2017.1	2018.1	2022.0	2034.8
25°	1976.7	1978.7	1971.8	1974.8	1987.6
27.5°	1931.5	1938.4	1926.6	1923.6	1934.4
30°	1887.2	1890.2	1877.4	1870.5	1885.2
32.5°	1842.9	1836.0	1827.2	1817.3	1829.2
35°	1799.6	1778.0	1771.1	1763.2	1771.1
37.5°	1737.7	1719.9	1709.1	1710.1	1717.0
40°	1675.7	1656.0	1646.1	1654.0	1660.9
42.5°	1609.7	1592.0	1583.2	1589.1	1600.9
45°	1535.9	1533.0	1516.3	1518.2	1532.0
47.5°	1468.0	1464.1	1444.4	1444.4	1454.3
50°	1398.2	1387.4	1369.7	1363.8	1377.5
52.5°	1327.3	1308.6	1290.0	1288.0	1299.8
55°	1249.6	1228.9	1212.2	1205.3	1221.1
57.5°	1165.0	1145.3	1123.7	1123.7	1133.5
60°	1080.4	1056.8	1034.1	1035.1	1056.8
62.5°	994.8	971.2	939.7	945.6	963.3
65°	895.4	876.7	849.1	860.0	870.8
67.5°	803.9	783.2	754.7	764.5	764.5
70°	706.5	679.9	663.2	652.4	646.5
72.5°	604.1	579.5	567.7	528.4	511.7
75°	496.9	480.2	466.4	400.5	376.9
77.5°	394.6	385.7	348.3	291.2	277.5
80°	301.1	294.2	239.1	237.1	238.1
82.5°	205.6	197.8	183.0	171.2	165.3
85°	121.0	111.2	110.2	101.3	100.4
87.5°	40.3	44.3	46.2	45.3	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)