

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: P393668

Luminaire Tested: **24EN-LD2-70-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-70-UNV-L82765-W2A-1-U (3500K)
Description: 2X4 ENCOUNTER, 7000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6641.6 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

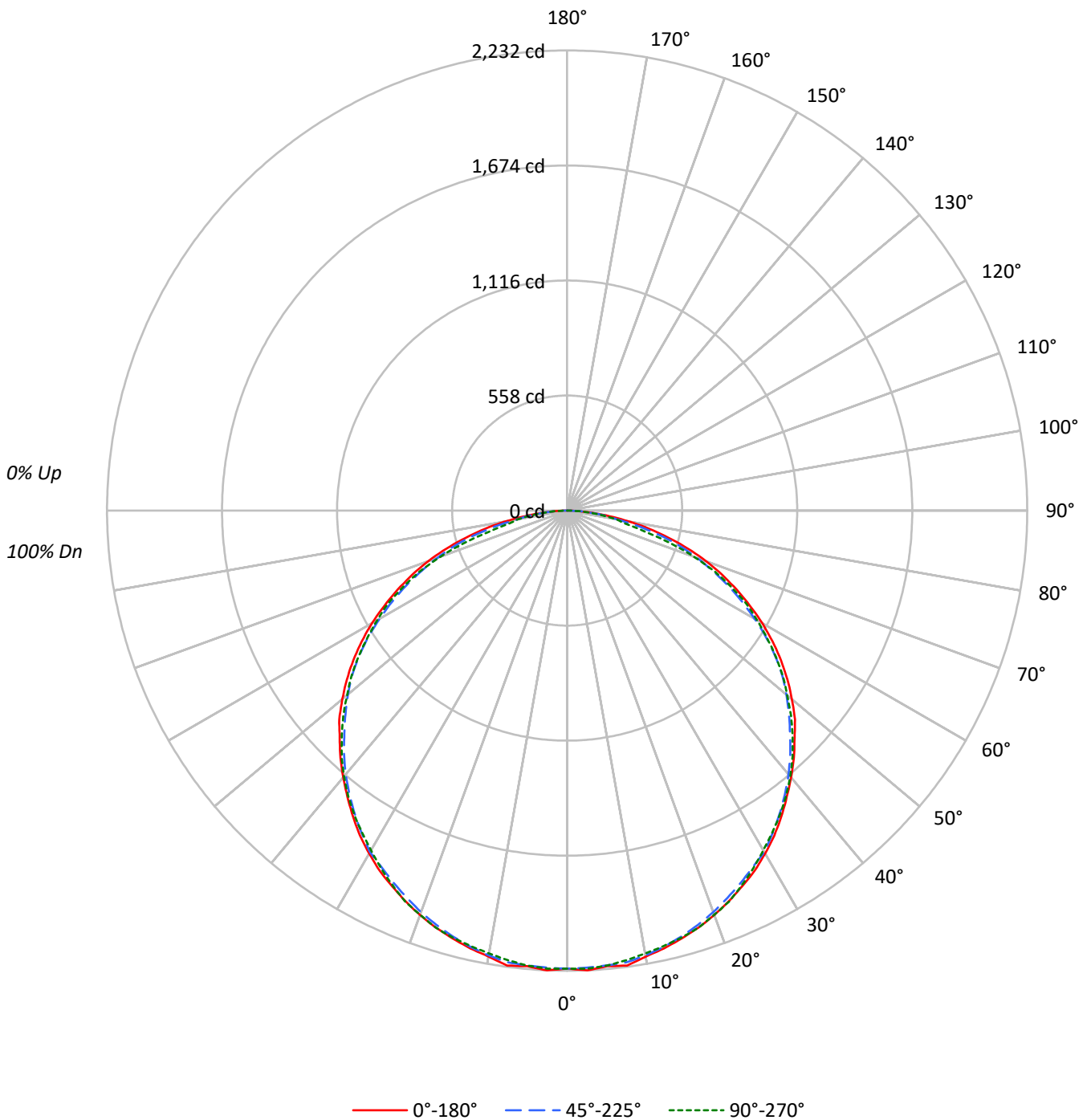
Input Watts (W): 51.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	41	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°	2990	2990	2990
5°	2996	2991	2992
10°	3001	2993	2980
15°	2992	2980	2987
20°	2989	2967	2988
25°	2984	2957	2977
30°	2984	2971	2956
35°	2976	2951	2957
40°	2968	2934	2956
45°	2968	2909	2941
50°	2980	2906	2916
55°	2970	2893	2899
60°	2941	2826	2865
65°	2886	2744	2801
70°	2821	2634	2575
75°	2649	2437	2004
80°	2349	1901	1857
85°	1871	1711	1579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.7	3.2
10°-20°	604.2	9.1
20°-30°	922.5	13.9
30°-40°	1125.9	17.0
40°-50°	1190.3	17.9
50°-60°	1106.9	16.7
60°-70°	866.2	13.0
70°-80°	486.0	7.3
80°-90°	128.9	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°	1737.4	26.2
0°-40°	2863.3	43.1
0°-60°	5160.4	77.7
0°-90°	6641.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6641.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2222	2222	2222	2222	2222	
5°	2218	2215	2214	2212	2215	212
15°	2148	2141	2140	2130	2144	607
25°	2010	1999	1992	2003	2005	927
35°	1812	1804	1797	1790	1800	1134
45°	1560	1548	1529	1538	1546	1206
55°	1266	1249	1233	1228	1236	1130
65°	906	886	862	867	880	897
75°	510	491	469	414	386	538
85°	121	113	111	103	102	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2221.9	2221.9	2221.9	2221.9	2221.9
2.5°	2232.3	2218.1	2219.1	2223.8	2223.8
5°	2218.1	2215.3	2214.4	2212.5	2215.3
7.5°	2225.7	2206.8	2209.6	2198.3	2199.2
10°	2196.4	2188.8	2190.7	2182.1	2181.2
12.5°	2174.6	2171.7	2167.0	2158.5	2163.2
15°	2148.1	2141.4	2139.5	2130.1	2144.3
17.5°	2120.6	2110.2	2107.3	2101.6	2120.6
20°	2087.4	2078.0	2072.3	2071.3	2086.5
22.5°	2050.5	2041.0	2032.5	2039.1	2052.4
25°	2009.8	1999.4	1991.8	2003.1	2005.0
27.5°	1970.0	1957.7	1950.1	1956.7	1955.8
30°	1920.7	1910.3	1912.2	1905.6	1902.8
32.5°	1869.6	1860.1	1855.4	1848.8	1851.6
35°	1811.8	1804.3	1796.7	1790.0	1800.5
37.5°	1750.3	1745.5	1735.1	1728.5	1744.6
40°	1689.7	1679.2	1670.7	1666.0	1683.0
42.5°	1628.1	1616.7	1601.6	1600.6	1618.6
45°	1559.9	1547.6	1528.6	1538.1	1545.7
47.5°	1499.3	1479.4	1458.6	1468.0	1472.8
50°	1423.5	1407.4	1388.5	1392.3	1393.2
52.5°	1346.8	1333.5	1315.5	1310.8	1319.3
55°	1266.3	1249.2	1233.1	1227.5	1236.0
57.5°	1181.1	1165.9	1145.1	1137.5	1148.8
60°	1093.0	1073.1	1050.3	1050.3	1064.6
62.5°	1000.2	984.1	956.6	960.4	981.2
65°	906.4	886.5	861.9	866.6	879.9
67.5°	812.6	792.7	763.4	770.0	775.7
70°	717.0	692.3	669.6	663.0	654.5
72.5°	613.7	591.0	575.8	539.9	525.6
75°	509.5	490.6	468.8	413.9	385.5
77.5°	407.3	394.9	359.9	295.5	284.1
80°	303.1	297.4	245.3	240.6	239.6
82.5°	206.5	202.7	186.6	173.3	170.5
85°	121.2	112.7	110.8	103.2	102.3
87.5°	41.7	45.5	44.5	45.5	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)