

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: P393667

Luminaire Tested: **24EN-LD2-70-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393667
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 (3000K)
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: 6431.9 lumens
Efficiency: N/A
Efficacy: 125.1 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

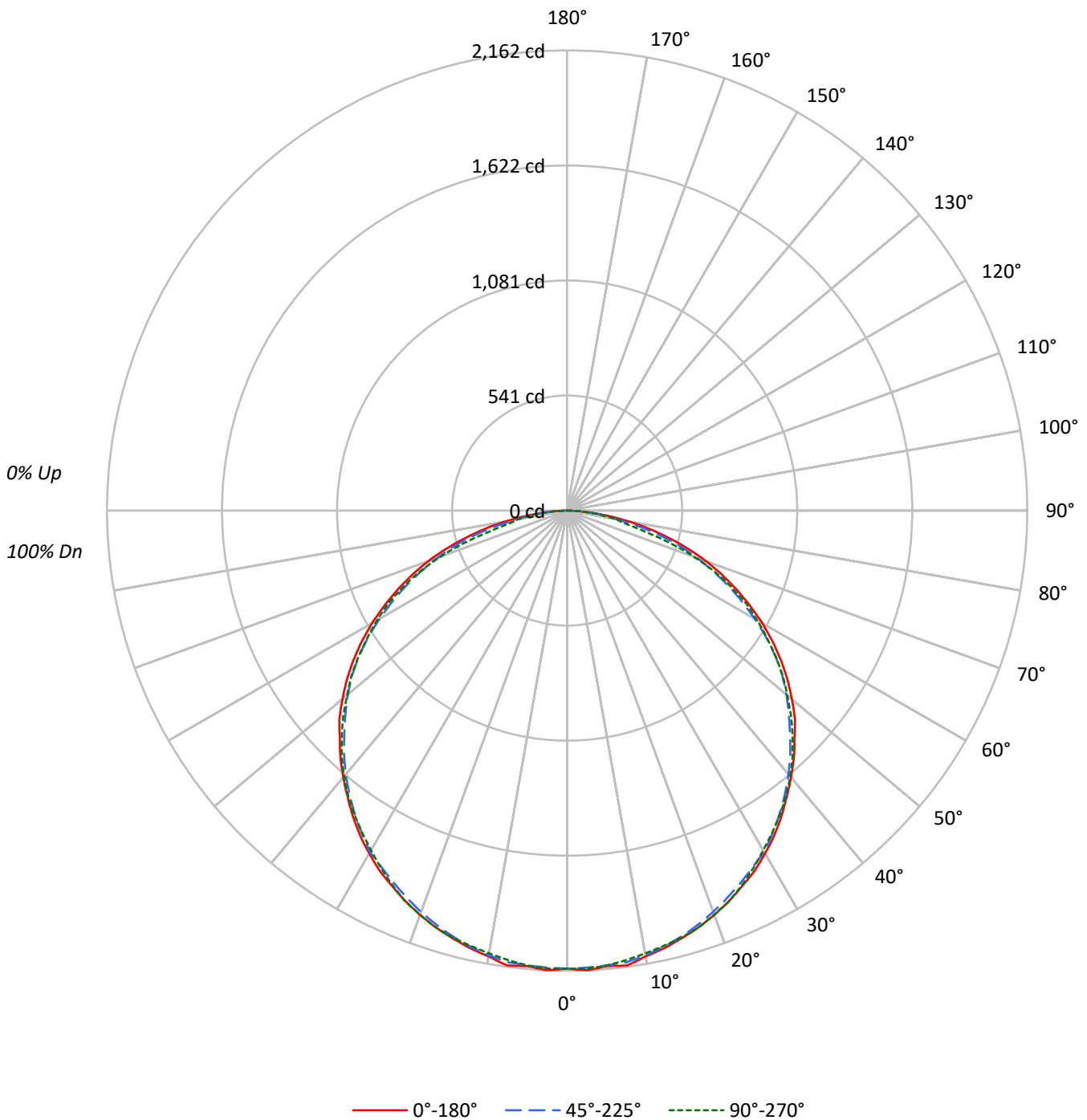
Input Watts (W): 51.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2895	2895	2895
5°	2901	2896	2898
10°	2906	2898	2886
15°	2898	2886	2893
20°	2894	2874	2893
25°	2889	2864	2883
30°	2890	2877	2863
35°	2882	2858	2864
40°	2874	2842	2863
45°	2875	2817	2848
50°	2886	2815	2824
55°	2877	2801	2808
60°	2848	2737	2774
65°	2795	2657	2713
70°	2731	2551	2493
75°	2565	2360	1941
80°	2274	1841	1798
85°	1812	1656	1530



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	3.2
10°-20°	585.1	9.1
20°-30°	893.4	13.9
30°-40°	1090.4	17.0
40°-50°	1152.7	17.9
50°-60°	1071.9	16.7
60°-70°	838.9	13.0
70°-80°	470.7	7.3
80°-90°	124.8	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°	1682.5	26.2
0°-40°	2772.9	43.1
0°-60°	4997.5	77.7
0°-90°	6431.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6431.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2152	2152	2152	2152	2152	
5°	2148	2145	2144	2143	2145	205
15°	2080	2074	2072	2063	2077	588
25°	1946	1936	1929	1940	1942	898
35°	1755	1747	1740	1734	1744	1098
45°	1511	1499	1480	1490	1497	1168
55°	1226	1210	1194	1189	1197	1095
65°	878	858	835	839	852	869
75°	494	475	454	401	373	521
85°	117	109	107	100	99	137
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2151.8	2151.8	2151.8	2151.8	2151.8
2.5°	2161.9	2148.1	2149.0	2153.6	2153.6
5°	2148.1	2145.4	2144.5	2142.6	2145.4
7.5°	2155.5	2137.1	2139.9	2128.9	2129.8
10°	2127.0	2119.7	2121.5	2113.3	2112.4
12.5°	2105.9	2103.2	2098.6	2090.3	2094.9
15°	2080.2	2073.8	2072.0	2062.8	2076.6
17.5°	2053.6	2043.6	2040.8	2035.3	2053.6
20°	2021.5	2012.4	2006.9	2006.0	2020.6
22.5°	1985.8	1976.6	1968.3	1974.8	1987.6
25°	1946.3	1936.2	1928.9	1939.9	1941.7
27.5°	1907.8	1895.9	1888.6	1895.0	1894.1
30°	1860.1	1850.0	1851.9	1845.4	1842.7
32.5°	1810.6	1801.4	1796.8	1790.4	1793.2
35°	1754.6	1747.3	1740.0	1733.5	1743.6
37.5°	1695.0	1690.4	1680.3	1673.9	1689.5
40°	1636.3	1626.2	1618.0	1613.4	1629.9
42.5°	1576.7	1565.7	1551.0	1550.1	1567.5
45°	1510.7	1498.7	1480.4	1489.6	1496.9
47.5°	1452.0	1432.7	1412.5	1421.7	1426.3
50°	1378.6	1363.0	1344.6	1348.3	1349.2
52.5°	1304.3	1291.4	1274.0	1269.4	1277.7
55°	1226.3	1209.8	1194.2	1188.7	1197.0
57.5°	1143.8	1129.1	1108.9	1101.6	1112.6
60°	1058.5	1039.2	1017.2	1017.2	1031.0
62.5°	968.6	953.0	926.4	930.1	950.2
65°	877.8	858.5	834.7	839.3	852.1
67.5°	787.0	767.7	739.3	745.7	751.2
70°	694.3	670.5	648.5	642.1	633.8
72.5°	594.4	572.3	557.7	522.8	509.1
75°	493.5	475.1	454.0	400.8	373.3
77.5°	394.4	382.5	348.5	286.2	275.2
80°	293.5	288.0	237.6	233.0	232.1
82.5°	200.0	196.3	180.7	167.9	165.1
85°	117.4	109.1	107.3	100.0	99.1
87.5°	40.4	44.0	43.1	44.0	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)