

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: P393700

Luminaire Tested: **24EN-LD2-74-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-40)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-74-UNV-L82765-W2A-1-U (3500K)
Description: 2X4 ENCOUNTER, 7400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6981.1 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

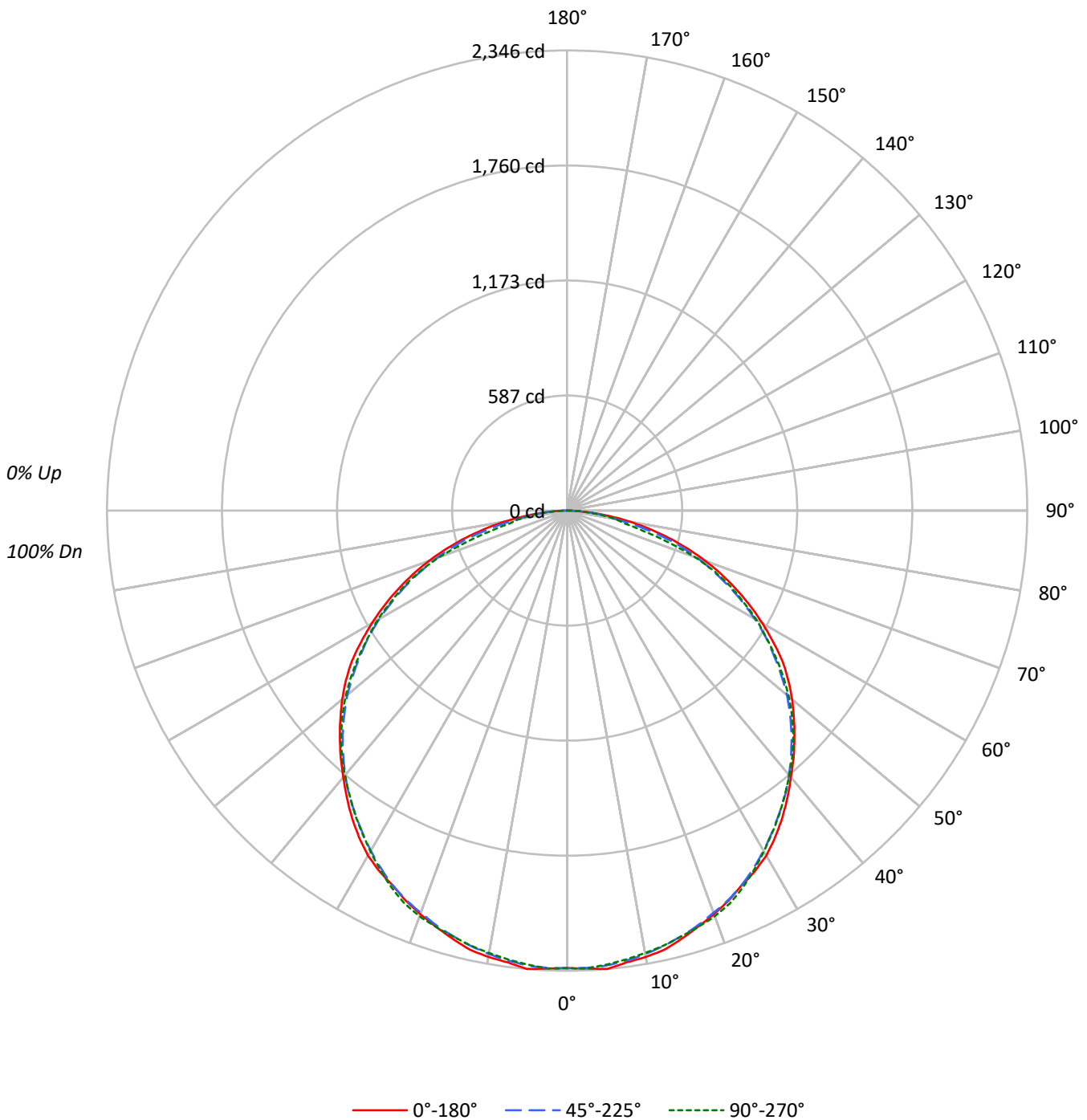
Input Watts (W): 55.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3139	3139	3139
5°	3169	3144	3138
10°	3157	3137	3129
15°	3148	3129	3131
20°	3135	3125	3152
25°	3128	3127	3147
30°	3155	3111	3117
35°	3141	3096	3099
40°	3117	3093	3094
45°	3118	3080	3102
50°	3132	3061	3087
55°	3146	3019	3042
60°	3094	2972	3002
65°	3036	2886	2934
70°	2943	2783	2720
75°	2782	2556	2098
80°	2480	1974	1937
85°	1945	1828	1681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	3.2
10°-20°	635.3	9.1
20°-30°	971.1	13.9
30°-40°	1183.9	17.0
40°-50°	1253.0	17.9
50°-60°	1161.3	16.6
60°-70°	911.1	13.1
70°-80°	508.3	7.3
80°-90°	135.9	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°	1827.5	26.2
0°-40°	3011.5	43.1
0°-60°	5425.8	77.7
0°-90°	6981.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6981.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2333	2333	2333	2333	2333	
5°	2346	2324	2328	2323	2323	222
15°	2260	2251	2247	2246	2248	638
25°	2107	2109	2106	2098	2120	975
35°	1912	1890	1885	1891	1887	1196
45°	1638	1637	1619	1609	1630	1265
55°	1341	1305	1287	1290	1297	1193
65°	954	937	906	916	922	943
75°	535	513	492	430	404	564
85°	126	119	118	111	109	150
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2332.7	2332.7	2332.7	2332.7	2332.7
2.5°	2336.5	2330.8	2333.7	2325.2	2336.5
5°	2346.0	2324.2	2328.0	2323.3	2323.3
7.5°	2323.3	2313.8	2313.8	2314.7	2308.1
10°	2311.0	2298.6	2295.8	2298.6	2290.1
12.5°	2293.0	2275.0	2273.1	2275.0	2271.2
15°	2259.8	2251.3	2246.6	2245.6	2247.5
17.5°	2223.8	2221.9	2217.2	2213.4	2225.7
20°	2189.7	2191.6	2182.2	2179.3	2201.1
22.5°	2151.8	2151.8	2148.1	2138.6	2167.9
25°	2107.3	2109.2	2106.4	2097.9	2119.6
27.5°	2073.2	2059.0	2056.2	2053.3	2064.7
30°	2030.6	2005.0	2002.2	2003.1	2006.0
32.5°	1974.7	1949.2	1944.4	1950.1	1946.3
35°	1912.2	1889.5	1884.8	1891.4	1886.7
37.5°	1845.0	1831.7	1826.0	1826.0	1824.1
40°	1774.9	1769.2	1760.7	1757.8	1761.6
42.5°	1708.6	1707.6	1689.7	1685.9	1700.1
45°	1638.5	1636.6	1618.6	1609.1	1630.0
47.5°	1568.4	1560.8	1541.0	1531.5	1555.2
50°	1496.4	1478.4	1462.3	1459.5	1474.7
52.5°	1421.6	1393.2	1374.3	1372.4	1387.5
55°	1341.1	1305.1	1287.1	1290.0	1296.6
57.5°	1245.5	1218.0	1200.0	1199.0	1202.8
60°	1149.8	1126.1	1104.3	1107.2	1115.7
62.5°	1052.2	1033.3	1006.8	1015.3	1015.3
65°	953.7	936.7	906.4	915.9	921.5
67.5°	853.4	834.4	805.0	809.8	815.5
70°	748.2	727.4	707.5	689.5	691.4
72.5°	642.1	619.4	606.2	560.7	547.4
75°	535.1	513.3	491.6	430.0	403.5
77.5°	426.2	413.9	372.2	305.9	296.4
80°	320.1	314.4	254.8	251.0	250.0
82.5°	221.6	212.2	194.2	182.8	180.0
85°	126.0	119.3	118.4	110.8	108.9
87.5°	44.5	47.4	48.3	48.3	48.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)