

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: P393706

Luminaire Tested: **24EN-LD2-74-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393706
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-L83050-W2A-1-U (2700K)
Description: 2X4 ENCOUNTER, 7400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7111.6 lumens
Efficiency: N/A
Efficacy: 130.5 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

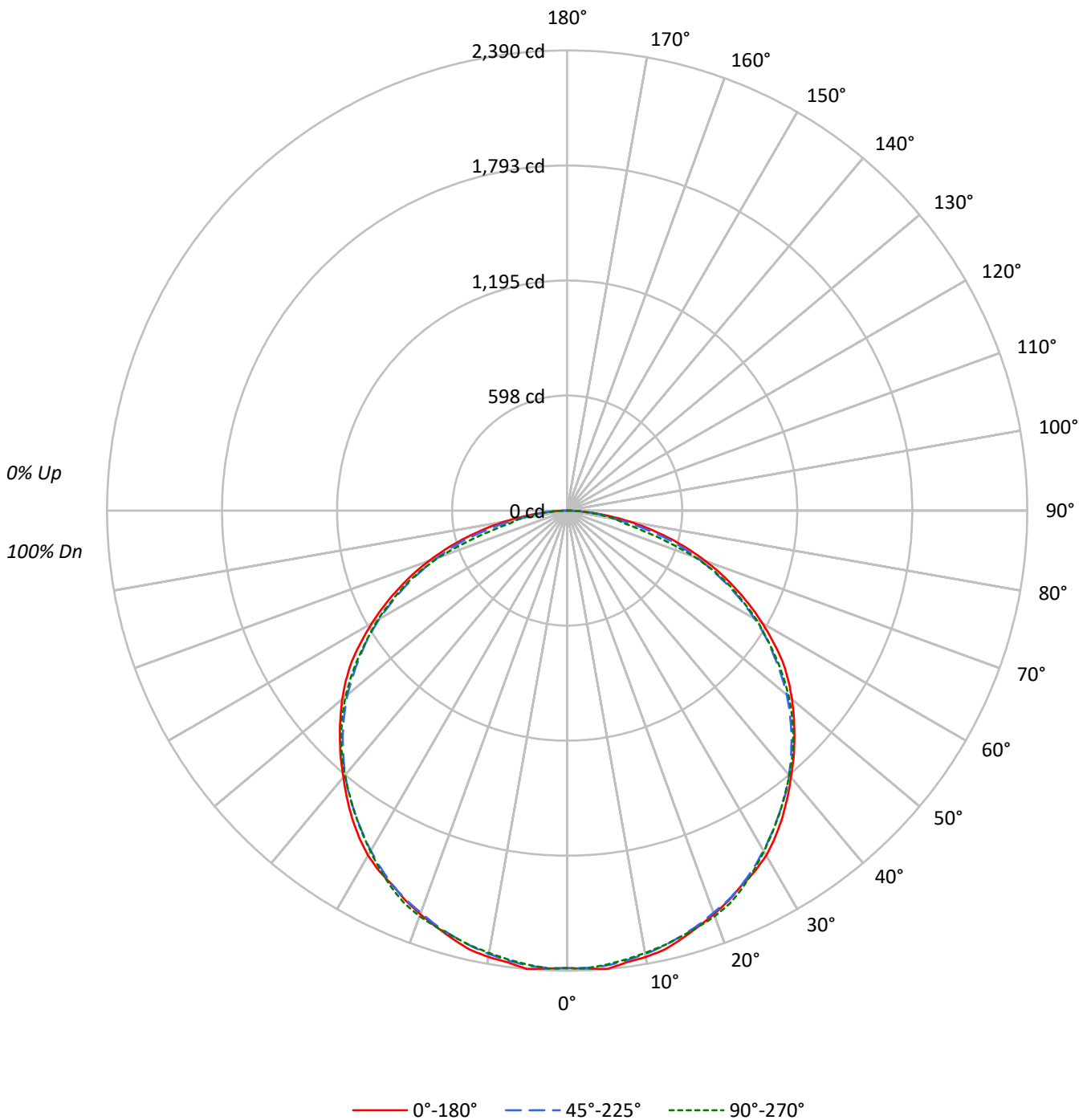
Input Watts (W): 54.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3197	3197	3197
5°	3228	3203	3197
10°	3216	3195	3187
15°	3207	3188	3189
20°	3194	3183	3210
25°	3187	3186	3206
30°	3214	3169	3175
35°	3200	3154	3157
40°	3176	3150	3152
45°	3176	3138	3160
50°	3191	3118	3144
55°	3205	3076	3098
60°	3152	3027	3059
65°	3093	2940	2989
70°	2998	2835	2771
75°	2834	2603	2137
80°	2527	2011	1974
85°	1981	1862	1714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	3.2
10°-20°	647.2	9.1
20°-30°	989.2	13.9
30°-40°	1206.1	17.0
40°-50°	1276.5	17.9
50°-60°	1183.0	16.6
60°-70°	928.1	13.1
70°-80°	517.8	7.3
80°-90°	138.5	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°	1861.7	26.2
0°-40°	3067.8	43.1
0°-60°	5527.3	77.7
0°-90°	7111.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7111.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2376	2376	2376	2376	2376	
5°	2390	2368	2372	2367	2367	226
15°	2302	2293	2289	2288	2290	650
25°	2147	2149	2146	2137	2159	993
35°	1948	1925	1920	1927	1922	1218
45°	1669	1667	1649	1639	1660	1289
55°	1366	1330	1311	1314	1321	1215
65°	972	954	923	933	939	960
75°	545	523	501	438	411	574
85°	128	122	121	113	111	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2376.4	2376.4	2376.4	2376.4	2376.4
2.5°	2380.2	2374.4	2377.3	2368.6	2380.2
5°	2389.9	2367.7	2371.5	2366.7	2366.7
7.5°	2366.7	2357.1	2357.1	2358.0	2351.3
10°	2354.2	2341.6	2338.7	2341.6	2332.9
12.5°	2335.8	2317.5	2315.6	2317.5	2313.6
15°	2302.1	2293.4	2288.6	2287.6	2289.5
17.5°	2265.4	2263.5	2258.6	2254.8	2267.3
20°	2230.7	2232.6	2222.9	2220.1	2242.2
22.5°	2192.1	2192.1	2188.2	2178.6	2208.5
25°	2146.7	2148.7	2145.8	2137.1	2159.3
27.5°	2112.0	2097.5	2094.6	2091.7	2103.3
30°	2068.6	2042.5	2039.6	2040.6	2043.5
32.5°	2011.7	1985.6	1980.8	1986.6	1982.7
35°	1948.0	1924.8	1920.0	1926.7	1921.9
37.5°	1879.5	1866.0	1860.2	1860.2	1858.2
40°	1808.1	1802.3	1793.6	1790.7	1794.6
42.5°	1740.5	1739.6	1721.2	1717.4	1731.9
45°	1669.1	1667.2	1648.9	1639.2	1660.5
47.5°	1597.7	1590.0	1569.8	1560.1	1584.2
50°	1524.4	1506.1	1489.7	1486.8	1502.2
52.5°	1448.2	1419.3	1400.0	1398.0	1413.5
55°	1366.2	1329.5	1311.2	1314.1	1320.8
57.5°	1268.7	1240.8	1222.4	1221.5	1225.3
60°	1171.3	1147.2	1125.0	1127.9	1136.6
62.5°	1071.9	1052.6	1025.6	1034.3	1034.3
65°	971.6	954.2	923.3	933.0	938.8
67.5°	869.3	850.0	820.1	824.9	830.7
70°	762.2	741.0	720.7	702.4	704.3
72.5°	654.1	631.0	617.5	571.2	557.7
75°	545.1	522.9	500.7	438.0	411.0
77.5°	434.2	421.6	379.2	311.6	302.0
80°	326.1	320.3	259.5	255.7	254.7
82.5°	225.8	216.1	197.8	186.2	183.3
85°	128.3	121.6	120.6	112.9	111.0
87.5°	45.3	48.2	49.2	49.2	49.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)