

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: P393704

Luminaire Tested: **24EN-LD2-74-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393704
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 (5700K)
Description: 2X4 ENCOUNTER, 7400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7104.2 lumens
Efficiency: N/A
Efficacy: 130.4 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

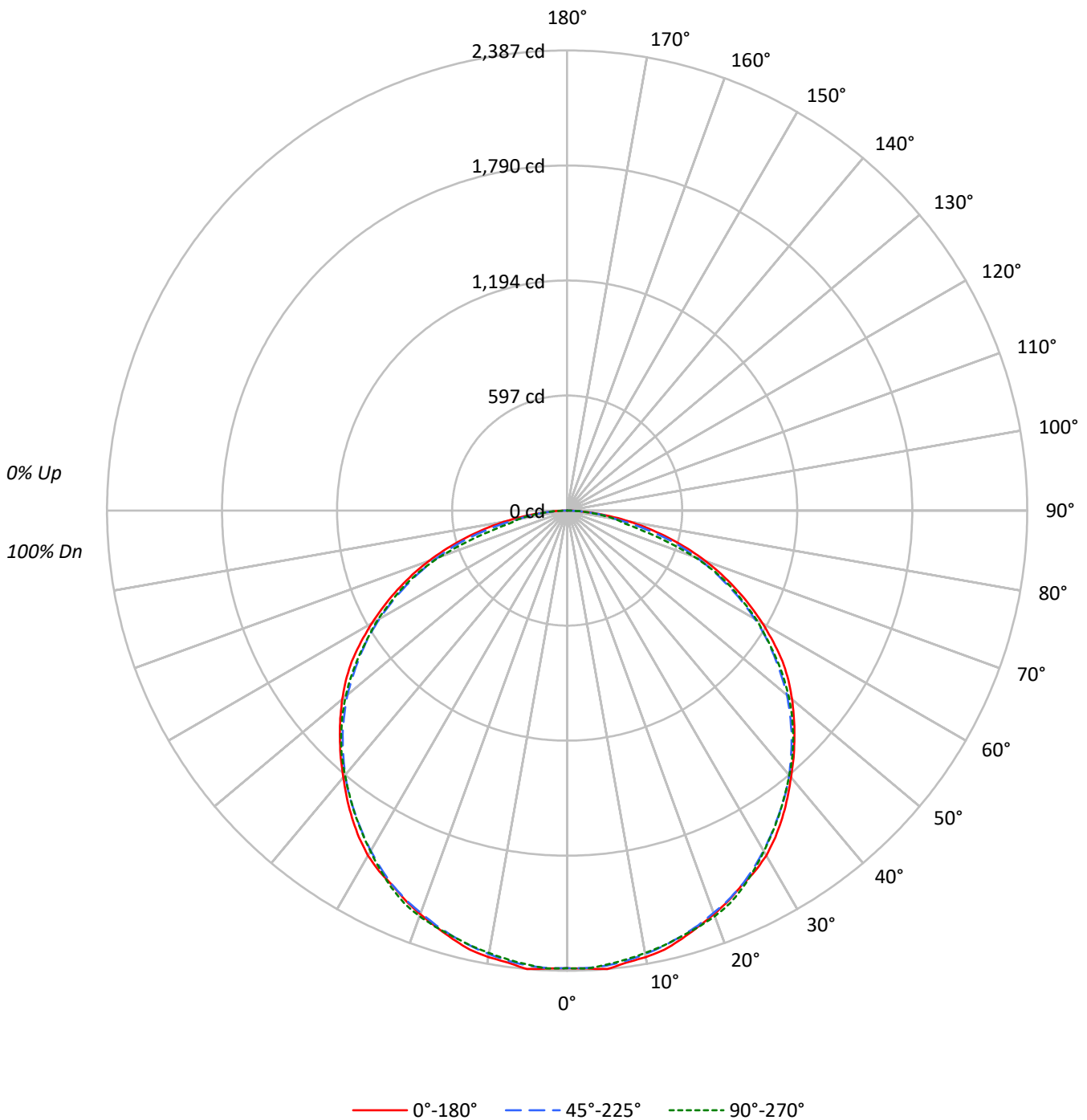
Input Watts (W): 54.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3194	3194	3194
5°	3224	3200	3193
10°	3213	3192	3184
15°	3203	3185	3186
20°	3191	3180	3207
25°	3184	3182	3202
30°	3210	3166	3172
35°	3196	3150	3154
40°	3172	3147	3149
45°	3173	3134	3156
50°	3188	3115	3141
55°	3202	3073	3095
60°	3149	3024	3055
65°	3090	2937	2986
70°	2995	2832	2768
75°	2831	2600	2135
80°	2524	2009	1971
85°	1979	1860	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.1	3.2
10°-20°	646.5	9.1
20°-30°	988.2	13.9
30°-40°	1204.8	17.0
40°-50°	1275.2	17.9
50°-60°	1181.8	16.6
60°-70°	927.1	13.1
70°-80°	517.2	7.3
80°-90°	138.3	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°	1859.8	26.2
0°-40°	3064.6	43.1
0°-60°	5521.5	77.7
0°-90°	7104.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7104.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2374	2374	2374	2374	2374	
5°	2387	2365	2369	2364	2364	226
15°	2300	2291	2286	2285	2287	649
25°	2144	2146	2144	2135	2157	992
35°	1946	1923	1918	1925	1920	1217
45°	1667	1666	1647	1638	1659	1288
55°	1365	1328	1310	1313	1320	1214
65°	971	953	922	932	938	959
75°	545	522	500	438	411	574
85°	128	121	120	113	111	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2373.9	2373.9	2373.9	2373.9	2373.9
2.5°	2377.7	2372.0	2374.8	2366.2	2377.7
5°	2387.4	2365.2	2369.1	2364.2	2364.2
7.5°	2364.2	2354.6	2354.6	2355.6	2348.8
10°	2351.7	2339.2	2336.3	2339.2	2330.5
12.5°	2333.4	2315.1	2313.2	2315.1	2311.2
15°	2299.7	2291.0	2286.2	2285.2	2287.1
17.5°	2263.0	2261.1	2256.3	2252.4	2265.0
20°	2228.3	2230.3	2220.6	2217.7	2239.9
22.5°	2189.8	2189.8	2185.9	2176.3	2206.2
25°	2144.5	2146.4	2143.5	2134.9	2157.0
27.5°	2109.8	2095.3	2092.4	2089.6	2101.1
30°	2066.4	2040.4	2037.5	2038.5	2041.4
32.5°	2009.6	1983.5	1978.7	1984.5	1980.6
35°	1945.9	1922.8	1918.0	1924.7	1919.9
37.5°	1877.5	1864.0	1858.2	1858.2	1856.3
40°	1806.2	1800.4	1791.7	1788.8	1792.7
42.5°	1738.7	1737.8	1719.5	1715.6	1730.1
45°	1667.4	1665.5	1647.2	1637.5	1658.7
47.5°	1596.1	1588.4	1568.1	1558.5	1582.6
50°	1522.8	1504.5	1488.1	1485.2	1500.7
52.5°	1446.7	1417.8	1398.5	1396.6	1412.0
55°	1364.8	1328.1	1309.8	1312.7	1319.5
57.5°	1267.4	1239.5	1221.2	1220.2	1224.0
60°	1170.1	1146.0	1123.8	1126.7	1135.4
62.5°	1070.8	1051.5	1024.5	1033.2	1033.2
65°	970.6	953.2	922.4	932.0	937.8
67.5°	868.4	849.1	819.2	824.1	829.8
70°	761.4	740.2	720.0	701.7	703.6
72.5°	653.5	630.3	616.8	570.6	557.1
75°	544.6	522.4	500.2	437.6	410.6
77.5°	433.7	421.2	378.8	311.3	301.7
80°	325.8	320.0	259.3	255.4	254.4
82.5°	225.5	215.9	197.6	186.0	183.1
85°	128.2	121.4	120.5	112.8	110.8
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)