

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: P393702

Luminaire Tested: **24EN-LD2-74-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393702
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 (4500K)
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: 7089.6 lumens
Efficiency: N/A
Efficacy: 128.9 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

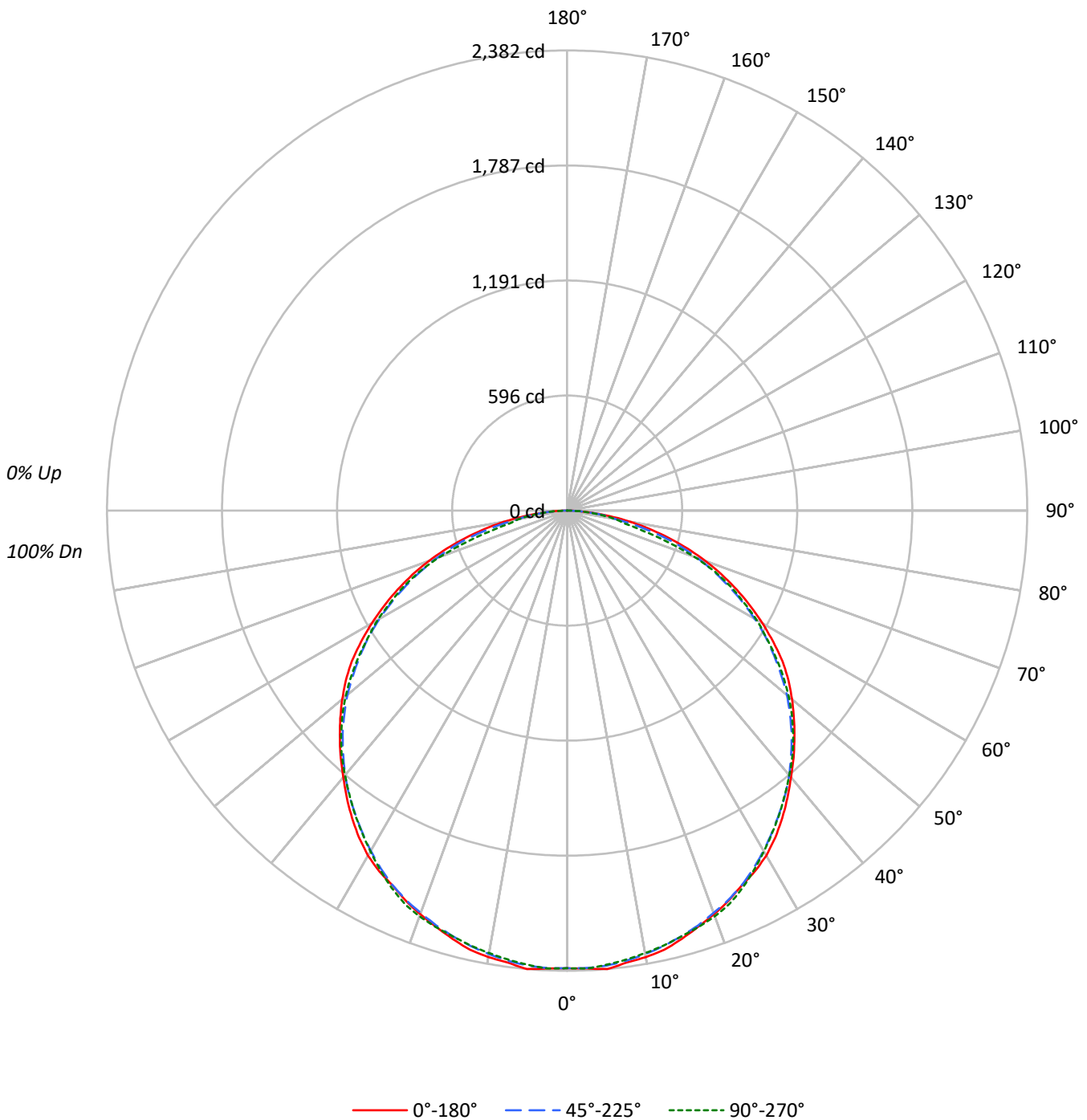
Input Watts (W): 55
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3187	3187	3187
5°	3218	3193	3187
10°	3206	3185	3177
15°	3197	3178	3179
20°	3184	3173	3201
25°	3177	3176	3196
30°	3204	3159	3165
35°	3190	3144	3147
40°	3166	3140	3142
45°	3166	3128	3150
50°	3181	3109	3135
55°	3195	3066	3089
60°	3142	3018	3049
65°	3084	2931	2980
70°	2989	2827	2762
75°	2825	2595	2130
80°	2519	2005	1967
85°	1974	1856	1707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	3.2
10°-20°	645.2	9.1
20°-30°	986.2	13.9
30°-40°	1202.3	17.0
40°-50°	1272.5	17.9
50°-60°	1179.4	16.6
60°-70°	925.2	13.1
70°-80°	516.2	7.3
80°-90°	138.0	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°	1855.9	26.2
0°-40°	3058.3	43.1
0°-60°	5510.1	77.7
0°-90°	7089.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7089.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2369	2369	2369	2369	2369	
5°	2382	2360	2364	2359	2359	226
15°	2295	2286	2282	2280	2282	648
25°	2140	2142	2139	2130	2153	990
35°	1942	1919	1914	1921	1916	1214
45°	1664	1662	1644	1634	1655	1285
55°	1362	1325	1307	1310	1317	1211
65°	969	951	920	930	936	957
75°	543	521	499	437	410	572
85°	128	121	120	112	111	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2369.0	2369.0	2369.0	2369.0	2369.0
2.5°	2372.8	2367.1	2370.0	2361.3	2372.8
5°	2382.5	2360.3	2364.2	2359.4	2359.4
7.5°	2359.4	2349.8	2349.8	2350.7	2344.0
10°	2346.9	2334.4	2331.5	2334.4	2325.7
12.5°	2328.6	2310.3	2308.4	2310.3	2306.5
15°	2294.9	2286.3	2281.5	2280.5	2282.4
17.5°	2258.4	2256.5	2251.6	2247.8	2260.3
20°	2223.8	2225.7	2216.1	2213.2	2235.3
22.5°	2185.3	2185.3	2181.4	2171.8	2201.6
25°	2140.1	2142.0	2139.1	2130.5	2152.6
27.5°	2105.4	2091.0	2088.1	2085.2	2096.8
30°	2062.2	2036.2	2033.3	2034.3	2037.2
32.5°	2005.4	1979.4	1974.6	1980.4	1976.6
35°	1941.9	1918.9	1914.0	1920.8	1916.0
37.5°	1873.6	1860.2	1854.4	1854.4	1852.5
40°	1802.5	1796.7	1788.0	1785.2	1789.0
42.5°	1735.1	1734.2	1715.9	1712.1	1726.5
45°	1664.0	1662.0	1643.8	1634.2	1655.3
47.5°	1592.8	1585.1	1564.9	1555.3	1579.3
50°	1519.7	1501.4	1485.1	1482.2	1497.6
52.5°	1443.7	1414.9	1395.6	1393.7	1409.1
55°	1362.0	1325.4	1307.1	1310.0	1316.7
57.5°	1264.8	1236.9	1218.6	1217.7	1221.5
60°	1167.7	1143.6	1121.5	1124.4	1133.0
62.5°	1068.6	1049.4	1022.4	1031.1	1031.1
65°	968.6	951.3	920.5	930.1	935.9
67.5°	866.6	847.4	817.6	822.4	828.1
70°	759.8	738.7	718.5	700.2	702.1
72.5°	652.1	629.0	615.6	569.4	555.9
75°	543.4	521.3	499.2	436.7	409.7
77.5°	432.8	420.3	378.0	310.7	301.1
80°	325.1	319.3	258.7	254.9	253.9
82.5°	225.1	215.5	197.2	185.6	182.7
85°	127.9	121.2	120.2	112.5	110.6
87.5°	45.2	48.1	49.1	49.1	49.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)