

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: P393573

Luminaire Tested: **24EN-LD2-54-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-36)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-54-UNV-L82765-W2A-1-U (4000K)
Description: 2X4 ENCOUNTER, 5400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5092.1 lumens
Efficiency: N/A
Efficacy: 131.2 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

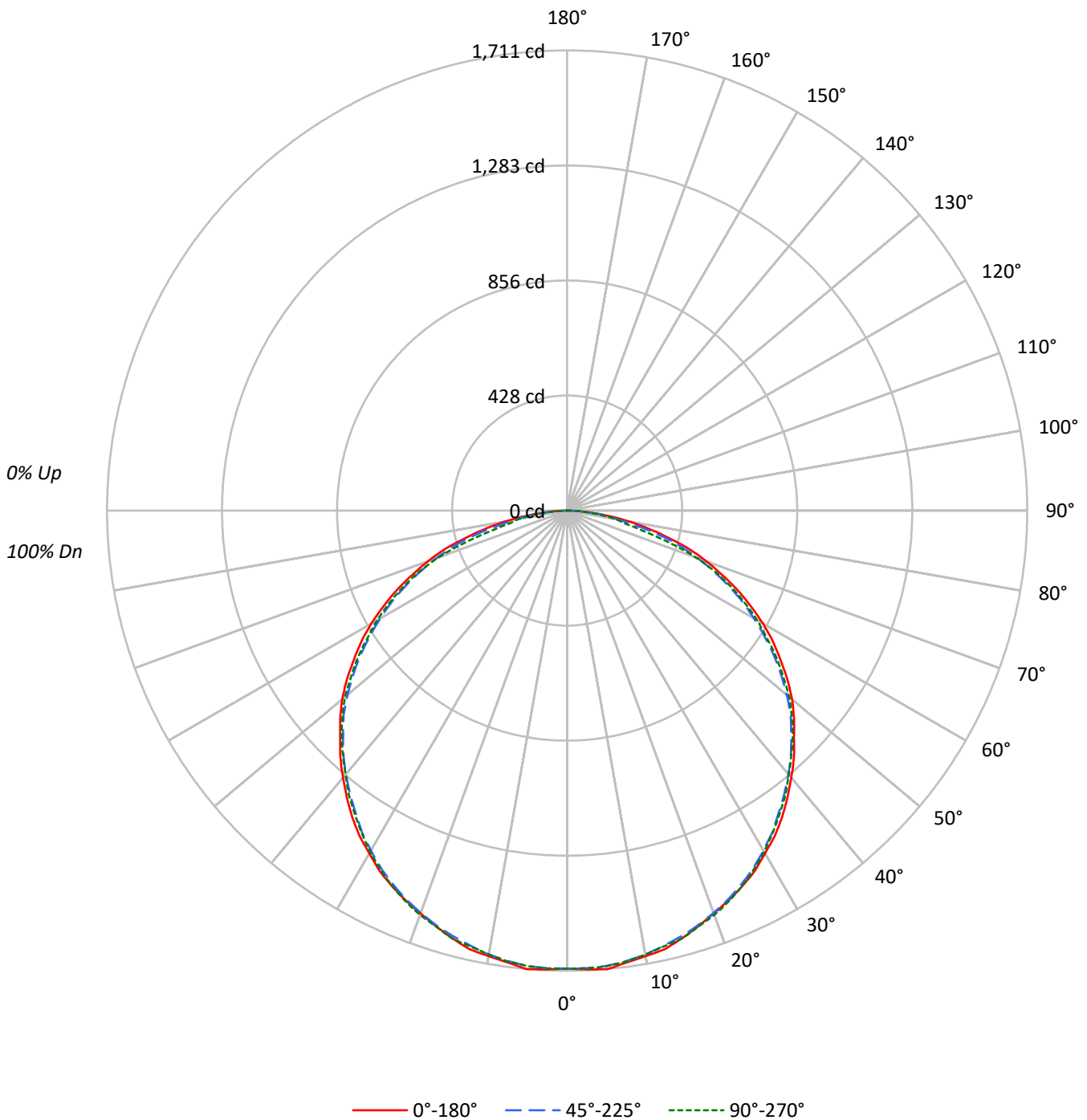
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	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°	2291	2291	2291
5°	2311	2295	2296
10°	2299	2290	2290
15°	2294	2282	2295
20°	2282	2279	2291
25°	2288	2276	2287
30°	2286	2267	2276
35°	2288	2252	2262
40°	2277	2248	2251
45°	2270	2242	2257
50°	2286	2231	2256
55°	2272	2202	2226
60°	2262	2159	2194
65°	2228	2109	2147
70°	2164	2032	2006
75°	2020	1875	1520
80°	1809	1477	1426
85°	1456	1312	1196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	3.2
10°-20°	463.4	9.1
20°-30°	707.1	13.9
30°-40°	862.9	16.9
40°-50°	913.1	17.9
50°-60°	847.2	16.6
60°-70°	664.8	13.1
70°-80°	373.2	7.3
80°-90°	98.9	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°	1332.1	26.2
0°-40°	2195.0	43.1
0°-60°	3955.2	77.7
0°-90°	5092.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5092.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1703	1703	1703	1703	1703	
5°	1711	1700	1699	1696	1700	162
15°	1647	1644	1638	1638	1648	465
25°	1541	1530	1533	1528	1540	710
35°	1393	1384	1371	1375	1377	871
45°	1193	1188	1178	1173	1186	923
55°	969	954	939	942	949	867
65°	700	681	662	662	674	690
75°	389	376	361	318	292	413
85°	94	86	85	78	78	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1702.9	1702.9	1702.9	1702.9	1702.9
2.5°	1707.6	1702.0	1702.9	1701.1	1703.9
5°	1711.4	1700.1	1699.2	1695.5	1700.1
7.5°	1694.5	1690.8	1688.9	1688.0	1690.8
10°	1682.4	1675.9	1675.9	1676.8	1675.9
12.5°	1671.2	1661.8	1657.2	1660.0	1660.0
15°	1646.9	1644.1	1638.5	1637.6	1647.8
17.5°	1620.7	1622.6	1617.0	1616.1	1621.7
20°	1593.7	1592.7	1591.8	1587.1	1600.2
22.5°	1568.4	1563.8	1564.7	1559.1	1572.2
25°	1541.3	1530.1	1532.9	1528.3	1540.4
27.5°	1510.5	1497.4	1499.3	1499.3	1504.0
30°	1471.3	1460.1	1459.1	1464.7	1464.7
32.5°	1435.8	1424.6	1419.0	1419.9	1421.8
35°	1392.8	1383.5	1371.3	1375.1	1376.9
37.5°	1345.2	1340.5	1326.5	1326.5	1333.0
40°	1296.6	1290.1	1279.8	1277.0	1281.6
42.5°	1248.0	1241.5	1231.2	1226.5	1234.0
45°	1192.9	1188.2	1178.0	1173.3	1186.4
47.5°	1144.3	1134.1	1127.5	1123.8	1133.1
50°	1092.0	1077.1	1065.9	1067.7	1078.0
52.5°	1032.2	1018.2	1002.3	1006.1	1011.7
55°	968.7	953.8	938.8	941.6	949.1
57.5°	908.0	893.0	869.7	874.4	880.0
60°	840.7	820.2	802.4	805.2	815.5
62.5°	769.7	752.9	735.2	737.0	746.4
65°	699.7	681.0	662.3	662.3	674.5
67.5°	623.1	610.0	589.4	589.4	596.9
70°	550.2	533.4	516.6	505.4	510.0
72.5°	476.4	455.9	442.8	414.8	402.6
75°	388.6	376.5	360.6	318.5	292.4
77.5°	309.2	302.7	271.8	227.9	216.7
80°	233.5	228.9	190.6	184.0	184.0
82.5°	159.7	155.1	143.9	132.6	130.8
85°	94.3	85.9	85.0	78.5	77.5
87.5°	30.8	35.5	33.6	34.6	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)