

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: P393576

Luminaire Tested: **24EN-LD2-54-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393576
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 (5700K)
Description: 2X4 ENCOUNTER, 5400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5253.8 lumens
Efficiency: N/A
Efficacy: 137.2 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

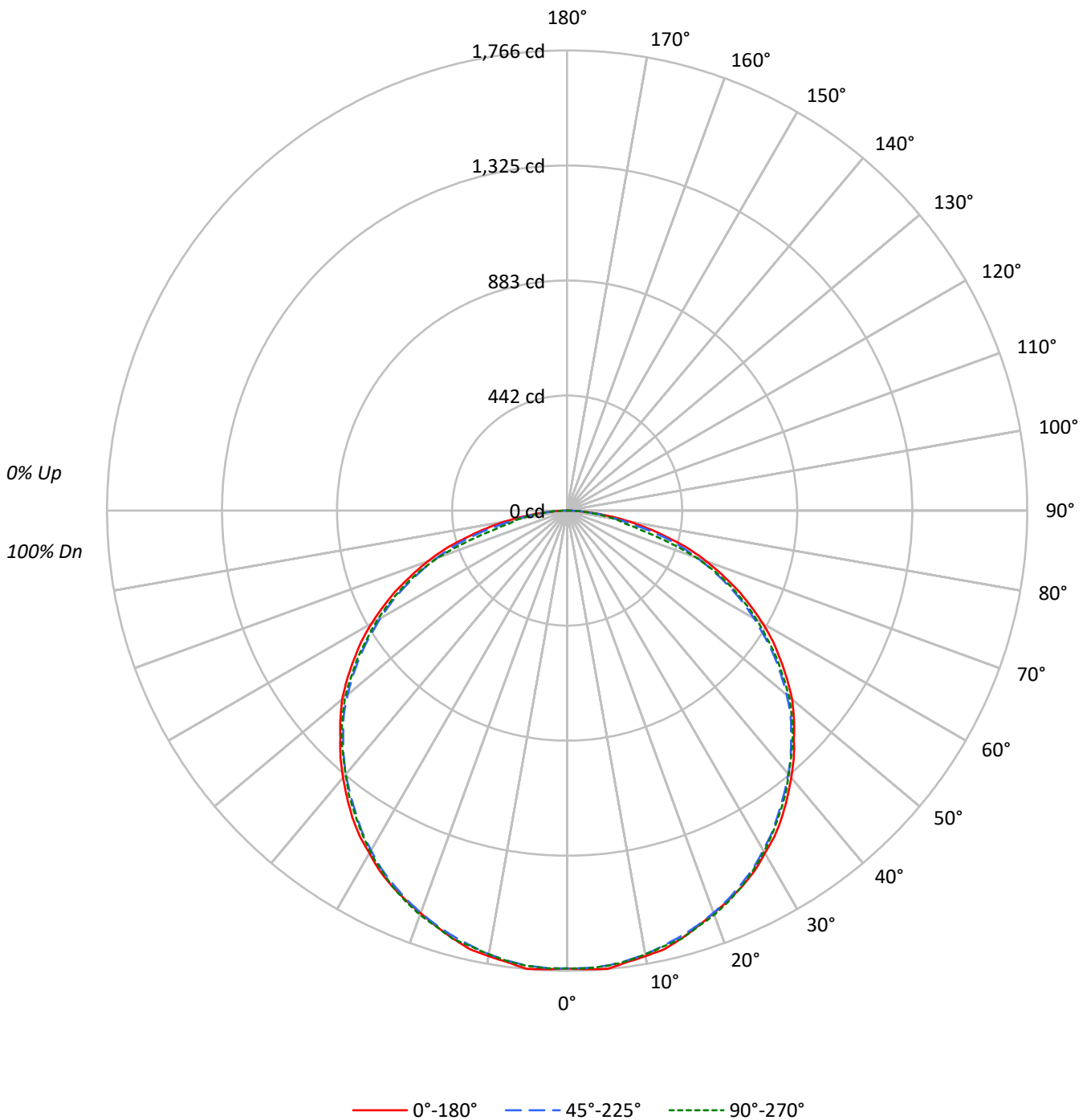
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2364	2364	2364
5°	2385	2368	2369
10°	2372	2362	2362
15°	2367	2355	2368
20°	2354	2352	2364
25°	2361	2348	2359
30°	2358	2339	2348
35°	2360	2324	2334
40°	2350	2319	2323
45°	2342	2313	2329
50°	2358	2302	2328
55°	2345	2272	2297
60°	2334	2228	2264
65°	2298	2175	2216
70°	2233	2097	2070
75°	2084	1934	1568
80°	1867	1523	1471
85°	1502	1354	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	3.2
10°-20°	478.2	9.1
20°-30°	729.6	13.9
30°-40°	890.3	16.9
40°-50°	942.1	17.9
50°-60°	874.1	16.6
60°-70°	685.9	13.1
70°-80°	385.0	7.3
80°-90°	102.1	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°	1374.4	26.2
0°-40°	2264.7	43.1
0°-60°	4080.8	77.7
0°-90°	5253.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5253.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1757	1757	1757	1757	1757	
5°	1766	1754	1753	1749	1754	167
15°	1699	1696	1690	1690	1700	479
25°	1590	1579	1582	1577	1589	733
35°	1437	1427	1415	1419	1421	898
45°	1231	1226	1215	1211	1224	953
55°	1000	984	969	972	979	895
65°	722	703	683	683	696	712
75°	401	388	372	329	302	426
85°	97	89	88	81	80	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1757.0	1757.0	1757.0	1757.0	1757.0
2.5°	1761.9	1756.1	1757.0	1755.1	1758.0
5°	1765.7	1754.1	1753.2	1749.3	1754.1
7.5°	1748.4	1744.5	1742.6	1741.6	1744.5
10°	1735.8	1729.1	1729.1	1730.1	1729.1
12.5°	1724.3	1714.6	1709.8	1712.7	1712.7
15°	1699.2	1696.3	1690.5	1689.6	1700.2
17.5°	1672.2	1674.1	1668.4	1667.4	1673.2
20°	1644.3	1643.3	1642.3	1637.5	1651.0
22.5°	1618.2	1613.4	1614.4	1608.6	1622.1
25°	1590.3	1578.7	1581.6	1576.8	1589.3
27.5°	1558.5	1545.0	1546.9	1546.9	1551.7
30°	1518.0	1506.4	1505.5	1511.3	1511.3
32.5°	1481.4	1469.8	1464.0	1465.0	1466.9
35°	1437.1	1427.4	1414.9	1418.7	1420.7
37.5°	1387.9	1383.1	1368.6	1368.6	1375.4
40°	1337.8	1331.0	1320.4	1317.5	1322.4
42.5°	1287.7	1280.9	1270.3	1265.5	1273.2
45°	1230.8	1226.0	1215.4	1210.6	1224.0
47.5°	1180.7	1170.1	1163.3	1159.5	1169.1
50°	1126.7	1111.3	1099.7	1101.6	1112.2
52.5°	1065.0	1050.6	1034.2	1038.0	1043.8
55°	999.5	984.1	968.6	971.5	979.2
57.5°	936.8	921.4	897.3	902.1	907.9
60°	867.4	846.2	827.9	830.8	841.4
62.5°	794.2	776.8	758.5	760.5	770.1
65°	721.9	702.6	683.3	683.3	695.9
67.5°	642.9	629.4	608.2	608.2	615.9
70°	567.7	550.3	533.0	521.4	526.2
72.5°	491.5	470.3	456.8	427.9	415.4
75°	400.9	388.4	372.0	328.7	301.7
77.5°	319.0	312.3	280.5	235.2	223.6
80°	241.0	236.1	196.6	189.9	189.9
82.5°	164.8	160.0	148.4	136.9	134.9
85°	97.3	88.7	87.7	81.0	80.0
87.5°	31.8	36.6	34.7	35.7	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)