

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: P393586

Luminaire Tested: **24EN-LD2-54-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393586
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-L92765-W2A-1-U (2700K)
Description: 2X4 ENCOUNTER, 5400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4091.0 lumens
Efficiency: N/A
Efficacy: 106.5 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

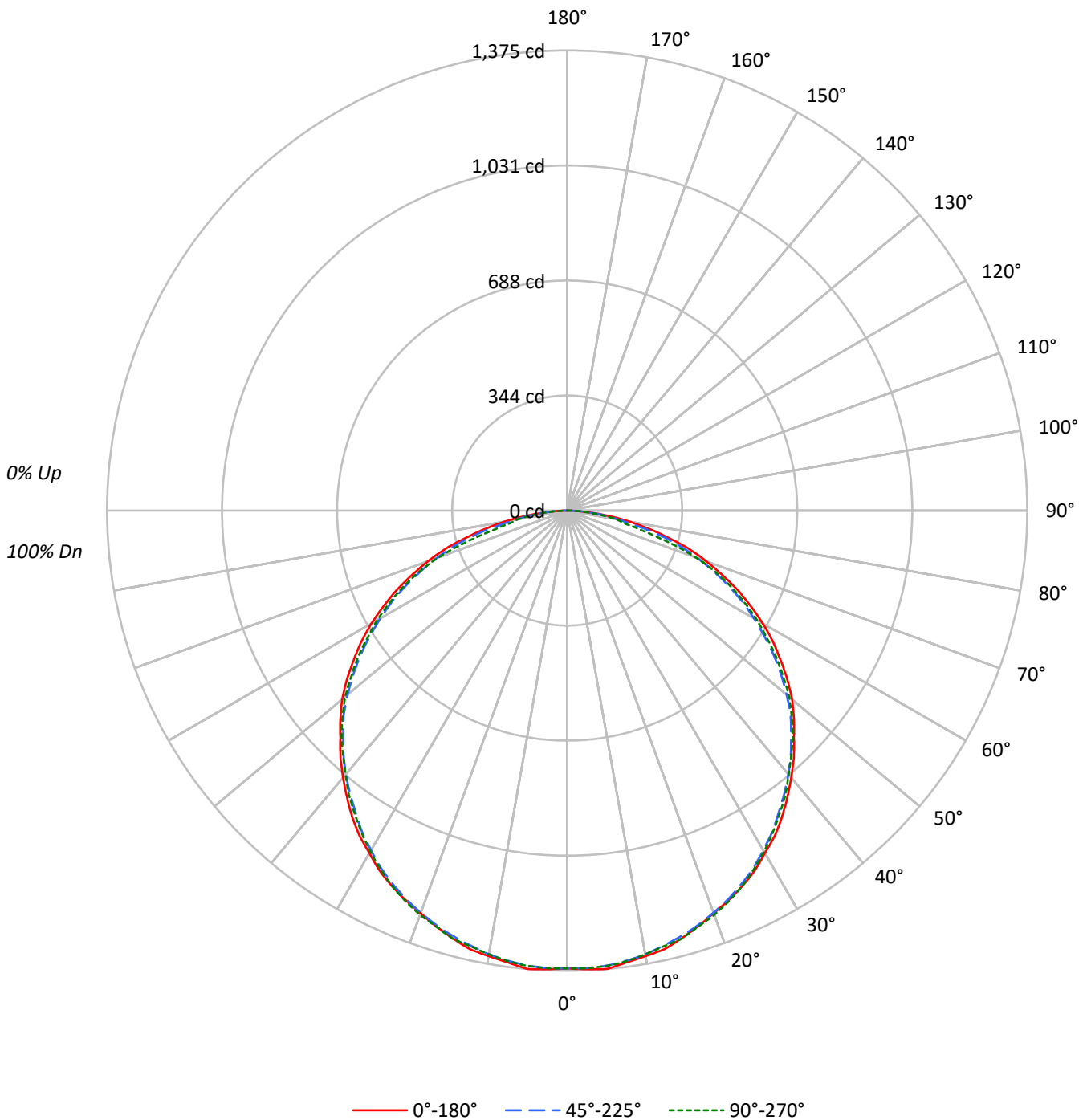
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1841	1841	1841
5°	1857	1844	1845
10°	1847	1840	1840
15°	1843	1834	1844
20°	1833	1831	1841
25°	1838	1828	1837
30°	1836	1821	1828
35°	1838	1810	1817
40°	1830	1806	1809
45°	1824	1801	1814
50°	1836	1792	1813
55°	1826	1769	1789
60°	1818	1735	1763
65°	1790	1694	1725
70°	1739	1633	1612
75°	1623	1506	1221
80°	1454	1186	1145
85°	1170	1054	962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	3.2
10°-20°	372.3	9.1
20°-30°	568.1	13.9
30°-40°	693.3	16.9
40°-50°	733.6	17.9
50°-60°	680.6	16.6
60°-70°	534.1	13.1
70°-80°	299.8	7.3
80°-90°	79.5	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°	1070.2	26.2
0°-40°	1763.4	43.1
0°-60°	3177.6	77.7
0°-90°	4091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1375	1366	1365	1362	1366	130
15°	1323	1321	1316	1316	1324	373
25°	1238	1229	1232	1228	1238	571
35°	1119	1112	1102	1105	1106	699
45°	958	955	946	943	953	742
55°	778	766	754	756	762	697
65°	562	547	532	532	542	554
75°	312	302	290	256	235	332
85°	76	69	68	63	62	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.2	1368.2	1368.2	1368.2	1368.2
2.5°	1371.9	1367.4	1368.2	1366.7	1368.9
5°	1374.9	1365.9	1365.2	1362.2	1365.9
7.5°	1361.4	1358.4	1356.9	1356.2	1358.4
10°	1351.7	1346.4	1346.4	1347.2	1346.4
12.5°	1342.7	1335.1	1331.4	1333.6	1333.6
15°	1323.1	1320.9	1316.4	1315.6	1323.9
17.5°	1302.1	1303.6	1299.1	1298.4	1302.9
20°	1280.4	1279.6	1278.9	1275.1	1285.6
22.5°	1260.1	1256.3	1257.1	1252.6	1263.1
25°	1238.3	1229.3	1231.6	1227.8	1237.6
27.5°	1213.6	1203.1	1204.6	1204.6	1208.3
30°	1182.0	1173.0	1172.3	1176.8	1176.8
32.5°	1153.5	1144.5	1140.0	1140.8	1142.3
35°	1119.0	1111.5	1101.7	1104.7	1106.2
37.5°	1080.7	1077.0	1065.7	1065.7	1071.0
40°	1041.7	1036.4	1028.2	1025.9	1029.7
42.5°	1002.7	997.4	989.2	985.4	991.4
45°	958.4	954.6	946.4	942.6	953.1
47.5°	919.4	911.1	905.9	902.9	910.4
50°	877.3	865.3	856.3	857.8	866.1
52.5°	829.3	818.0	805.3	808.3	812.8
55°	778.3	766.3	754.3	756.5	762.5
57.5°	729.5	717.5	698.7	702.5	707.0
60°	675.5	658.9	644.7	646.9	655.2
62.5°	618.4	604.9	590.6	592.1	599.7
65°	562.1	547.1	532.1	532.1	541.9
67.5°	500.6	490.1	473.6	473.6	479.6
70°	442.0	428.5	415.0	406.0	409.8
72.5°	382.8	366.2	355.7	333.2	323.5
75°	312.2	302.5	289.7	255.9	234.9
77.5°	248.4	243.2	218.4	183.1	174.1
80°	187.6	183.9	153.1	147.8	147.8
82.5°	128.3	124.6	115.6	106.6	105.1
85°	75.8	69.0	68.3	63.0	62.3
87.5°	24.8	28.5	27.0	27.8	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)