

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: P393651

Luminaire Tested: **24EN-LD2-67-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-67-UNV-L92765-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5153.7 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

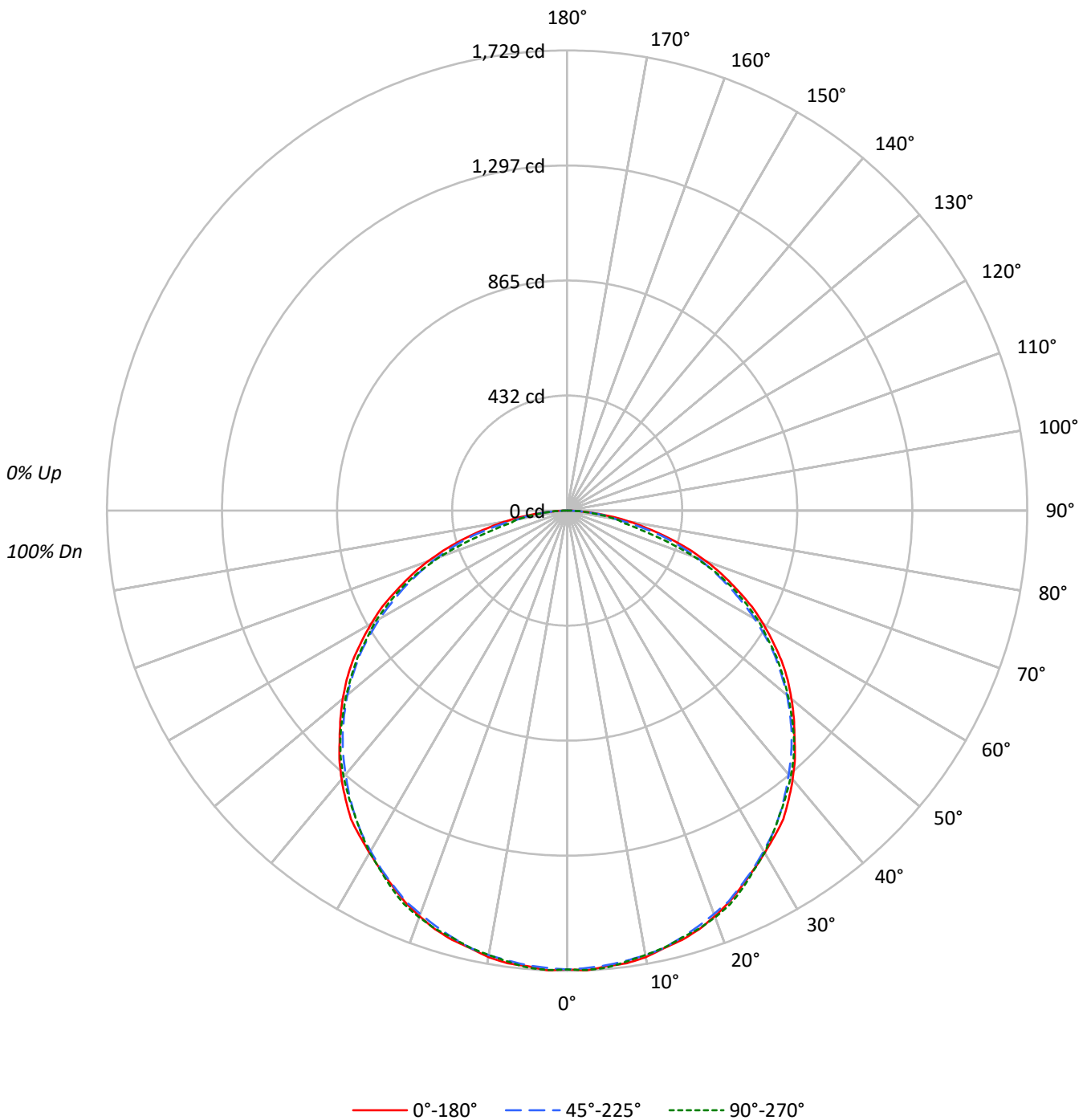
Input Watts (W): 48.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	42	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°	2320	2320	2320
5°	2320	2316	2328
10°	2328	2317	2316
15°	2326	2314	2315
20°	2322	2309	2329
25°	2309	2303	2322
30°	2307	2295	2305
35°	2326	2289	2289
40°	2316	2275	2295
45°	2300	2270	2294
50°	2303	2256	2269
55°	2306	2237	2254
60°	2287	2189	2237
65°	2243	2127	2181
70°	2186	2053	2001
75°	2032	1907	1541
80°	1836	1457	1451
85°	1470	1338	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	3.2
10°-20°	469.6	9.1
20°-30°	717.1	13.9
30°-40°	873.8	17.0
40°-50°	925.1	17.9
50°-60°	857.0	16.6
60°-70°	672.9	13.1
70°-80°	375.1	7.3
80°-90°	100.0	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°	1349.9	26.2
0°-40°	2223.6	43.1
0°-60°	4005.7	77.7
0°-90°	5153.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5153.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1718	1721	1715	1712	1723	164
15°	1670	1664	1661	1658	1662	471
25°	1555	1557	1551	1554	1564	718
35°	1416	1399	1394	1387	1394	883
45°	1208	1206	1193	1194	1205	935
55°	983	967	954	948	961	877
65°	704	690	668	677	685	699
75°	391	378	367	315	296	415
85°	95	88	87	80	79	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1724.0	1724.0	1724.0	1724.0	1724.0
2.5°	1728.7	1720.9	1720.2	1721.7	1727.9
5°	1717.8	1720.9	1714.7	1712.4	1723.3
7.5°	1715.5	1714.0	1705.5	1700.0	1709.3
10°	1703.9	1701.6	1696.2	1687.7	1695.4
12.5°	1683.8	1685.3	1683.0	1673.7	1682.2
15°	1669.8	1663.7	1661.3	1658.2	1662.1
17.5°	1649.7	1637.3	1638.1	1642.8	1647.4
20°	1621.9	1611.0	1612.6	1621.1	1626.5
22.5°	1591.7	1587.0	1587.8	1590.9	1600.9
25°	1555.3	1556.8	1551.4	1553.7	1563.8
27.5°	1519.7	1525.1	1515.8	1513.5	1522.0
30°	1484.8	1487.1	1477.1	1471.7	1483.3
32.5°	1450.0	1444.6	1437.6	1429.9	1439.2
35°	1415.9	1398.9	1393.5	1387.3	1393.5
37.5°	1367.2	1353.2	1344.7	1345.5	1350.9
40°	1318.4	1302.9	1295.2	1301.4	1306.8
42.5°	1266.5	1252.6	1245.6	1250.3	1259.5
45°	1208.5	1206.1	1193.0	1194.5	1205.4
47.5°	1155.0	1151.9	1136.5	1136.5	1144.2
50°	1100.1	1091.6	1077.6	1073.0	1083.8
52.5°	1044.3	1029.6	1014.9	1013.4	1022.7
55°	983.2	966.9	953.8	948.3	960.7
57.5°	916.6	901.1	884.1	884.1	891.8
60°	850.0	831.4	813.6	814.4	831.4
62.5°	782.7	764.1	739.3	744.0	757.9
65°	704.5	689.8	668.1	676.6	685.1
67.5°	632.5	616.2	593.8	601.5	601.5
70°	555.8	534.9	521.8	513.3	508.6
72.5°	475.3	456.0	446.7	415.7	402.6
75°	390.9	377.8	366.9	315.1	296.5
77.5°	310.4	303.5	274.1	229.1	218.3
80°	236.9	231.5	188.1	186.6	187.3
82.5°	161.8	155.6	144.0	134.7	130.1
85°	95.2	87.5	86.7	79.7	79.0
87.5°	31.7	34.8	36.4	35.6	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)