

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: P393682

Luminaire Tested: **24EN-LD2-70-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-70-UNV-L92765-W2A-1-U (2700K)
Description: 2X4 ENCOUNTER, 7000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5262.9 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

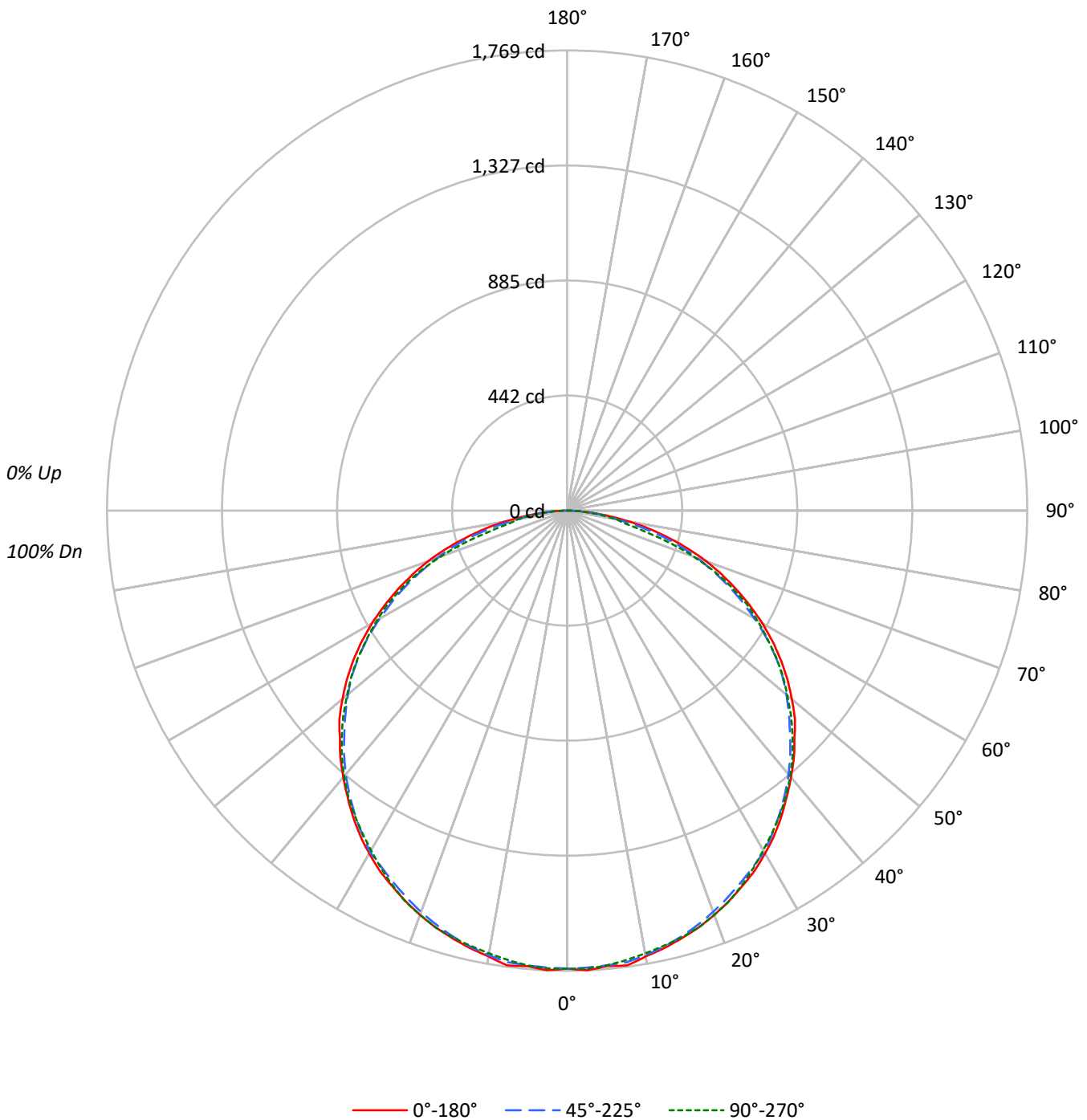
Input Watts (W): 50.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2369	2369	2369
5°	2374	2370	2371
10°	2378	2372	2361
15°	2371	2362	2367
20°	2368	2351	2367
25°	2364	2343	2359
30°	2365	2354	2343
35°	2358	2338	2343
40°	2352	2325	2342
45°	2352	2305	2331
50°	2361	2303	2311
55°	2354	2292	2297
60°	2331	2240	2270
65°	2287	2174	2220
70°	2235	2087	2040
75°	2099	1931	1588
80°	1861	1506	1471
85°	1484	1355	1252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	3.2
10°-20°	478.8	9.1
20°-30°	731.0	13.9
30°-40°	892.2	17.0
40°-50°	943.2	17.9
50°-60°	877.1	16.7
60°-70°	686.4	13.0
70°-80°	385.2	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°	1376.7	26.2
0°-40°	2268.9	43.1
0°-60°	4089.2	77.7
0°-90°	5262.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5262.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1758	1755	1755	1753	1755	168
15°	1702	1697	1695	1688	1699	481
25°	1593	1584	1578	1587	1589	735
35°	1436	1430	1424	1418	1427	898
45°	1236	1226	1211	1219	1225	956
55°	1003	990	977	973	979	896
65°	718	702	683	687	697	711
75°	404	389	372	328	306	426
85°	96	89	88	82	81	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1760.7	1760.7	1760.7	1760.7	1760.7
2.5°	1768.9	1757.7	1758.4	1762.2	1762.2
5°	1757.7	1755.4	1754.7	1753.2	1755.4
7.5°	1763.7	1748.7	1750.9	1741.9	1742.7
10°	1740.4	1734.4	1735.9	1729.2	1728.4
12.5°	1723.2	1720.9	1717.2	1710.4	1714.2
15°	1702.1	1696.9	1695.4	1687.9	1699.1
17.5°	1680.4	1672.1	1669.9	1665.4	1680.4
20°	1654.1	1646.6	1642.1	1641.4	1653.4
22.5°	1624.8	1617.3	1610.6	1615.8	1626.3
25°	1592.6	1584.3	1578.3	1587.3	1588.8
27.5°	1561.0	1551.3	1545.3	1550.5	1549.8
30°	1522.0	1513.8	1515.3	1510.0	1507.8
32.5°	1481.5	1474.0	1470.2	1465.0	1467.2
35°	1435.7	1429.7	1423.7	1418.5	1426.7
37.5°	1386.9	1383.2	1374.9	1369.7	1382.4
40°	1338.9	1330.6	1323.9	1320.1	1333.6
42.5°	1290.1	1281.1	1269.1	1268.4	1282.6
45°	1236.1	1226.3	1211.3	1218.8	1224.8
47.5°	1188.0	1172.3	1155.8	1163.3	1167.0
50°	1128.0	1115.2	1100.2	1103.2	1104.0
52.5°	1067.2	1056.7	1042.5	1038.7	1045.5
55°	1003.4	989.9	977.2	972.7	979.4
57.5°	935.9	923.9	907.4	901.4	910.4
60°	866.1	850.3	832.3	832.3	843.6
62.5°	792.5	779.8	758.0	761.0	777.5
65°	718.2	702.5	683.0	686.7	697.2
67.5°	643.9	628.2	604.9	610.2	614.7
70°	568.1	548.6	530.6	525.4	518.6
72.5°	486.3	468.3	456.3	427.8	416.5
75°	403.8	388.8	371.5	328.0	305.5
77.5°	322.7	313.0	285.2	234.2	225.2
80°	240.2	235.7	194.4	190.6	189.9
82.5°	163.6	160.6	147.8	137.3	135.1
85°	96.1	89.3	87.8	81.8	81.1
87.5°	33.0	36.0	35.3	36.0	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)