

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: P393654

Luminaire Tested: **24EN-LD2-67-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393654
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 (4500K)
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: 5468.8 lumens
Efficiency: N/A
Efficacy: 113.2 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

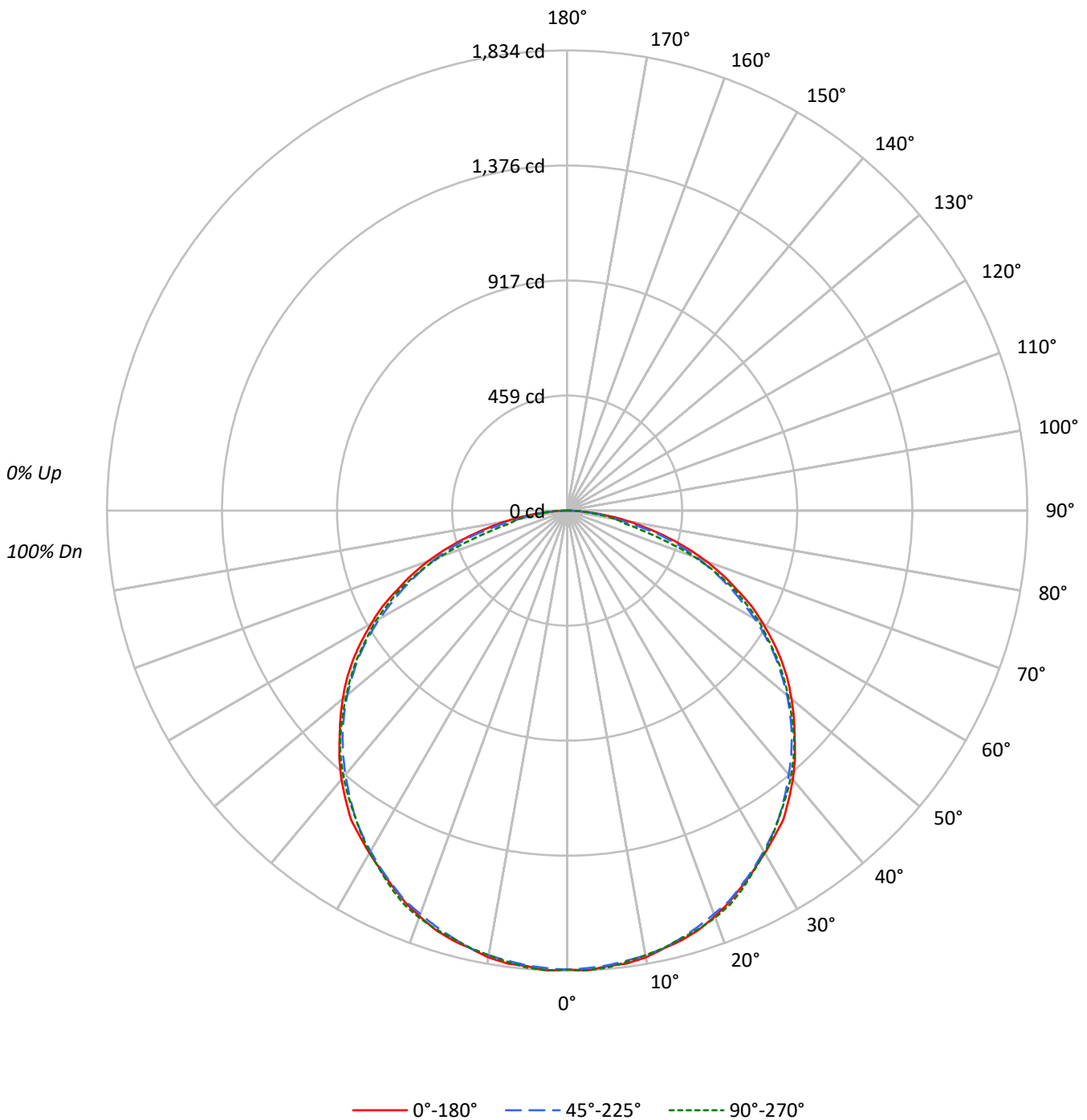
Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2462	2462	2462
5°	2462	2458	2470
10°	2470	2459	2458
15°	2468	2456	2457
20°	2464	2450	2471
25°	2450	2444	2464
30°	2448	2435	2445
35°	2468	2429	2429
40°	2457	2414	2436
45°	2440	2409	2434
50°	2443	2394	2407
55°	2447	2374	2392
60°	2427	2323	2374
65°	2380	2257	2315
70°	2320	2178	2123
75°	2157	2024	1635
80°	1948	1547	1540
85°	1559	1420	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	3.2
10°-20°	498.3	9.1
20°-30°	760.9	13.9
30°-40°	927.2	17.0
40°-50°	981.6	17.9
50°-60°	909.4	16.6
60°-70°	714.0	13.1
70°-80°	398.0	7.3
80°-90°	106.2	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°	1432.4	26.2
0°-40°	2359.6	43.1
0°-60°	4250.6	77.7
0°-90°	5468.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5468.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1830	1830	1830	1830	1830	
5°	1823	1826	1820	1817	1829	174
15°	1772	1765	1763	1760	1764	500
25°	1650	1652	1646	1649	1659	762
35°	1502	1484	1479	1472	1479	937
45°	1282	1280	1266	1268	1279	992
55°	1043	1026	1012	1006	1020	930
65°	748	732	709	718	727	741
75°	415	401	389	334	315	440
85°	101	93	92	85	84	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1829.5	1829.5	1829.5	1829.5	1829.5
2.5°	1834.4	1826.2	1825.4	1827.0	1833.6
5°	1822.9	1826.2	1819.6	1817.1	1828.6
7.5°	1820.4	1818.8	1809.7	1804.0	1813.9
10°	1808.1	1805.6	1799.9	1790.8	1799.1
12.5°	1786.7	1788.4	1785.9	1776.1	1785.1
15°	1772.0	1765.4	1762.9	1759.6	1763.7
17.5°	1750.6	1737.5	1738.3	1743.2	1748.1
20°	1721.0	1709.5	1711.2	1720.2	1726.0
22.5°	1689.0	1684.1	1684.9	1688.2	1698.8
25°	1650.4	1652.0	1646.3	1648.7	1659.4
27.5°	1612.6	1618.3	1608.5	1606.0	1615.1
30°	1575.6	1578.1	1567.4	1561.7	1574.0
32.5°	1538.7	1532.9	1525.5	1517.3	1527.2
35°	1502.5	1484.4	1478.7	1472.1	1478.7
37.5°	1450.8	1436.0	1426.9	1427.8	1433.5
40°	1399.0	1382.6	1374.4	1380.9	1386.7
42.5°	1344.0	1329.2	1321.8	1326.7	1336.6
45°	1282.3	1279.9	1265.9	1267.6	1279.1
47.5°	1225.7	1222.4	1205.9	1205.9	1214.2
50°	1167.3	1158.3	1143.5	1138.6	1150.1
52.5°	1108.2	1092.6	1077.0	1075.3	1085.2
55°	1043.3	1026.0	1012.1	1006.3	1019.5
57.5°	972.6	956.2	938.1	938.1	946.4
60°	902.0	882.3	863.4	864.2	882.3
62.5°	830.5	810.8	784.5	789.5	804.2
65°	747.6	731.9	708.9	718.0	727.0
67.5°	671.2	653.9	630.1	638.3	638.3
70°	589.8	567.6	553.7	544.6	539.7
72.5°	504.4	483.9	474.0	441.1	427.2
75°	414.9	400.9	389.4	334.3	314.6
77.5°	329.4	322.0	290.8	243.2	231.7
80°	251.4	245.6	199.6	198.0	198.8
82.5°	171.7	165.1	152.8	142.9	138.0
85°	101.0	92.8	92.0	84.6	83.8
87.5°	33.7	37.0	38.6	37.8	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)