

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: P393653

Luminaire Tested: **24EN-LD2-67-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393653
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 (4000K)
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: 5505.7 lumens
Efficiency: N/A
Efficacy: 114.0 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

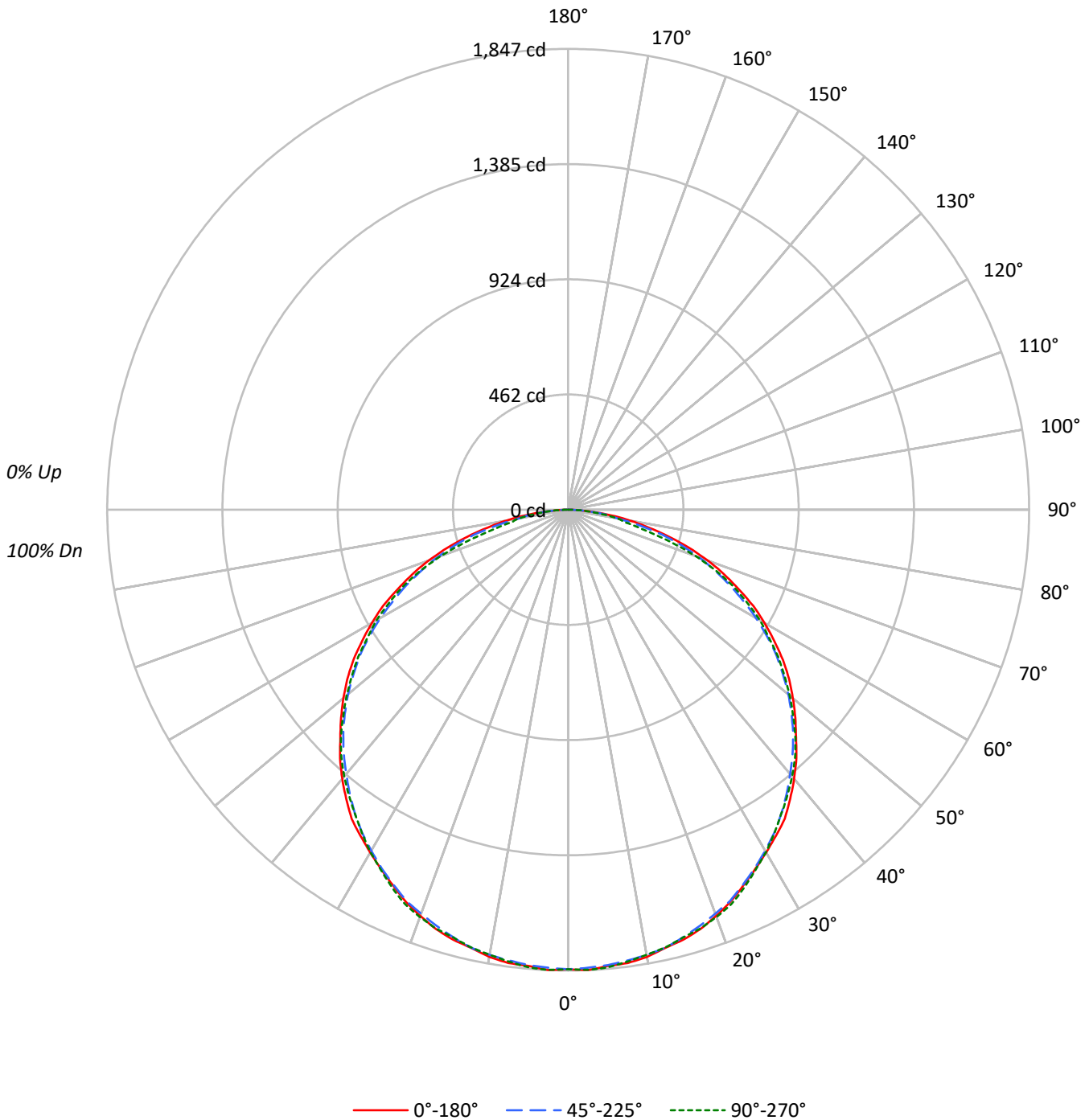
Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2478	2478	2478
5°	2479	2474	2487
10°	2487	2476	2475
15°	2485	2472	2473
20°	2481	2467	2488
25°	2467	2461	2480
30°	2465	2452	2462
35°	2485	2445	2445
40°	2474	2430	2452
45°	2457	2425	2450
50°	2460	2410	2424
55°	2464	2390	2408
60°	2444	2339	2390
65°	2396	2272	2330
70°	2336	2193	2138
75°	2171	2038	1647
80°	1961	1557	1550
85°	1570	1430	1303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	3.2
10°-20°	501.6	9.1
20°-30°	766.1	13.9
30°-40°	933.4	17.0
40°-50°	988.2	17.9
50°-60°	915.5	16.6
60°-70°	718.8	13.1
70°-80°	400.7	7.3
80°-90°	106.9	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°	1442.1	26.2
0°-40°	2375.5	43.1
0°-60°	4279.3	77.7
0°-90°	5505.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5505.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1835	1838	1832	1829	1841	175
15°	1784	1777	1775	1772	1776	504
25°	1662	1663	1657	1660	1671	767
35°	1513	1494	1489	1482	1489	943
45°	1291	1288	1274	1276	1288	998
55°	1050	1033	1019	1013	1026	937
65°	753	737	714	723	732	746
75°	418	404	392	337	317	443
85°	102	94	93	85	84	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1841.8	1841.8	1841.8	1841.8	1841.8
2.5°	1846.8	1838.5	1837.7	1839.3	1845.9
5°	1835.2	1838.5	1831.9	1829.4	1841.0
7.5°	1832.7	1831.1	1822.0	1816.2	1826.1
10°	1820.3	1817.8	1812.0	1802.9	1811.2
12.5°	1798.8	1800.5	1798.0	1788.1	1797.2
15°	1783.9	1777.3	1774.8	1771.5	1775.6
17.5°	1762.4	1749.2	1750.0	1755.0	1759.9
20°	1732.6	1721.1	1722.7	1731.8	1737.6
22.5°	1700.4	1695.4	1696.3	1699.6	1710.3
25°	1661.5	1663.2	1657.4	1659.9	1670.6
27.5°	1623.5	1629.3	1619.3	1616.9	1626.0
30°	1586.3	1588.7	1578.0	1572.2	1584.6
32.5°	1549.0	1543.3	1535.8	1527.5	1537.5
35°	1512.6	1494.5	1488.7	1482.0	1488.7
37.5°	1460.5	1445.7	1436.6	1437.4	1443.2
40°	1408.4	1391.9	1383.6	1390.2	1396.0
42.5°	1353.0	1338.1	1330.7	1335.7	1345.6
45°	1291.0	1288.5	1274.5	1276.1	1287.7
47.5°	1233.9	1230.6	1214.1	1214.1	1222.4
50°	1175.2	1166.1	1151.2	1146.3	1157.9
52.5°	1115.7	1100.0	1084.2	1082.6	1092.5
55°	1050.3	1033.0	1018.9	1013.1	1026.4
57.5°	979.2	962.7	944.5	944.5	952.7
60°	908.1	888.2	869.2	870.0	888.2
62.5°	836.1	816.3	789.8	794.8	809.7
65°	752.6	736.9	713.7	722.8	731.9
67.5°	675.7	658.3	634.3	642.6	642.6
70°	593.8	571.5	557.4	548.3	543.4
72.5°	507.8	487.1	477.2	444.1	430.1
75°	417.7	403.6	392.0	336.6	316.8
77.5°	331.6	324.2	292.8	244.8	233.2
80°	253.1	247.3	201.0	199.3	200.1
82.5°	172.9	166.2	153.8	143.9	138.9
85°	101.7	93.5	92.6	85.2	84.4
87.5°	33.9	37.2	38.9	38.0	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)