

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: P393660

Luminaire Tested: **24EN-LD2-67-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393660
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-L93050-W2A-1-U (3500K)
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: 5598.2 lumens
Efficiency: N/A
Efficacy: 115.9 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

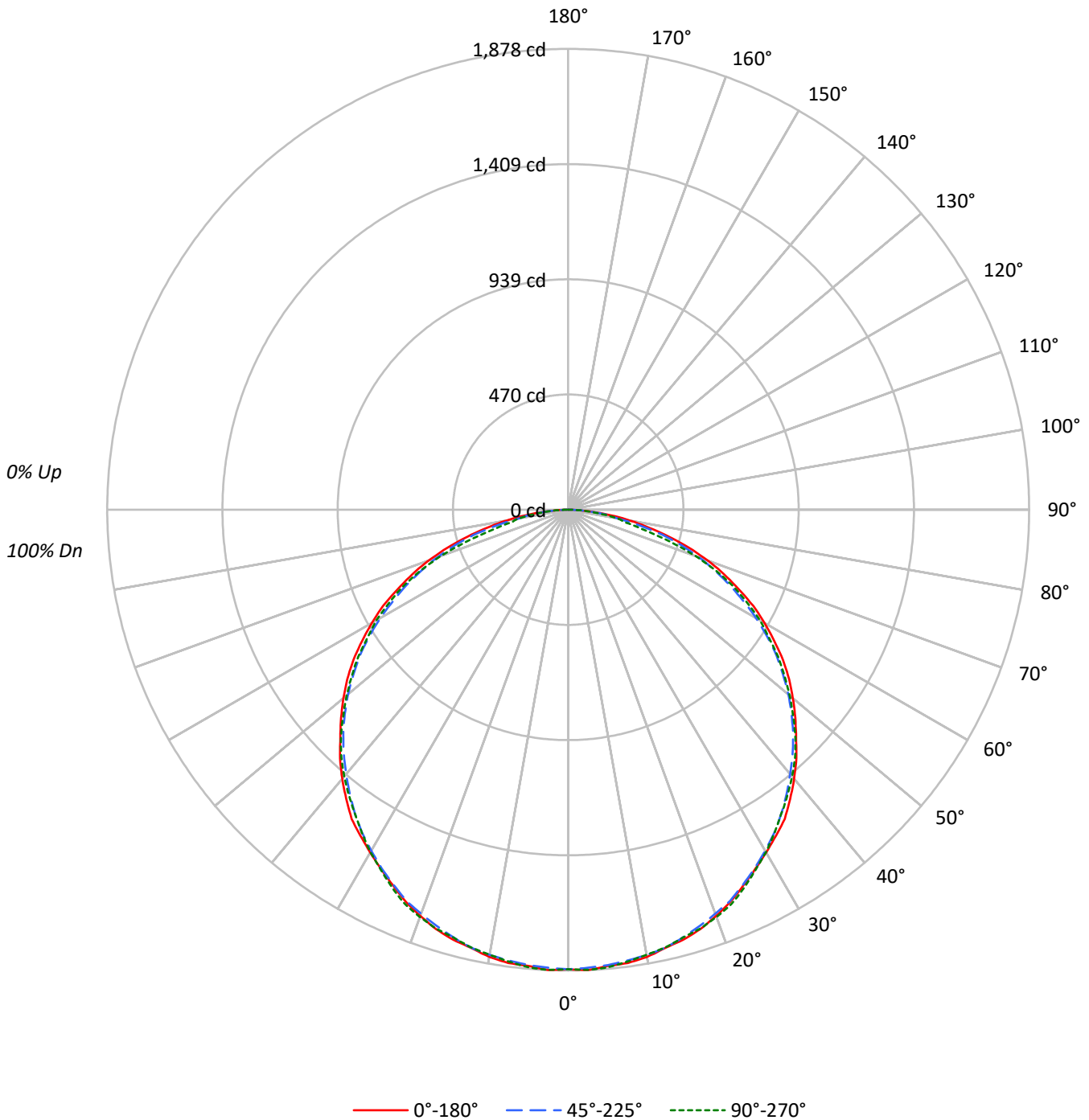
Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2520	2520	2520
5°	2520	2516	2528
10°	2529	2517	2516
15°	2527	2514	2515
20°	2522	2508	2530
25°	2508	2502	2522
30°	2506	2493	2503
35°	2526	2486	2486
40°	2515	2471	2493
45°	2498	2466	2491
50°	2501	2450	2464
55°	2505	2430	2448
60°	2485	2378	2430
65°	2436	2310	2369
70°	2375	2230	2174
75°	2208	2072	1674
80°	1994	1583	1577
85°	1596	1454	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.3	3.2
10°-20°	510.1	9.1
20°-30°	778.9	13.9
30°-40°	949.1	17.0
40°-50°	1004.9	17.9
50°-60°	930.9	16.6
60°-70°	730.9	13.1
70°-80°	407.4	7.3
80°-90°	108.7	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°	1466.3	26.2
0°-40°	2415.4	43.1
0°-60°	4351.2	77.7
0°-90°	5598.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5598.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1873	1873	1873	1873	1873	
5°	1866	1869	1863	1860	1872	178
15°	1814	1807	1805	1801	1806	512
25°	1689	1691	1685	1688	1699	780
35°	1538	1520	1514	1507	1514	959
45°	1313	1310	1296	1298	1309	1015
55°	1068	1050	1036	1030	1044	953
65°	765	749	726	735	744	759
75°	425	410	399	342	322	451
85°	103	95	94	87	86	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1872.7	1872.7	1872.7	1872.7	1872.7
2.5°	1877.8	1869.4	1868.5	1870.2	1877.0
5°	1866.0	1869.4	1862.7	1860.1	1871.9
7.5°	1863.5	1861.8	1852.6	1846.7	1856.8
10°	1850.9	1848.4	1842.5	1833.2	1841.6
12.5°	1829.0	1830.7	1828.2	1818.1	1827.3
15°	1813.9	1807.2	1804.6	1801.3	1805.5
17.5°	1792.0	1778.6	1779.4	1784.4	1789.5
20°	1761.7	1750.0	1751.7	1760.9	1766.8
22.5°	1728.9	1723.9	1724.7	1728.1	1739.0
25°	1689.4	1691.1	1685.2	1687.7	1698.7
27.5°	1650.7	1656.6	1646.5	1644.0	1653.3
30°	1612.9	1615.4	1604.5	1598.6	1611.2
32.5°	1575.1	1569.2	1561.6	1553.2	1563.3
35°	1538.1	1519.6	1513.7	1506.9	1513.7
37.5°	1485.1	1469.9	1460.7	1461.5	1467.4
40°	1432.1	1415.3	1406.9	1413.6	1419.5
42.5°	1375.8	1360.6	1353.1	1358.1	1368.2
45°	1312.7	1310.2	1295.9	1297.6	1309.3
47.5°	1254.7	1251.3	1234.5	1234.5	1242.9
50°	1195.0	1185.7	1170.6	1165.5	1177.3
52.5°	1134.4	1118.4	1102.5	1100.8	1110.9
55°	1068.0	1050.3	1036.0	1030.1	1043.6
57.5°	995.7	978.8	960.3	960.3	968.7
60°	923.3	903.2	883.8	884.7	903.2
62.5°	850.2	830.0	803.1	808.1	823.3
65°	765.2	749.3	725.7	735.0	744.2
67.5°	687.0	669.4	645.0	653.4	653.4
70°	603.8	581.1	566.8	557.5	552.5
72.5°	516.3	495.3	485.2	451.6	437.3
75°	424.7	410.4	398.6	342.3	322.1
77.5°	337.2	329.6	297.7	248.9	237.1
80°	257.3	251.4	204.3	202.7	203.5
82.5°	175.8	169.0	156.4	146.3	141.3
85°	103.4	95.0	94.2	86.6	85.8
87.5°	34.5	37.8	39.5	38.7	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)