

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: P393655

Luminaire Tested: **24EN-LD2-67-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393655
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 (5000K)
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5611.4 lumens
Efficiency: N/A
Efficacy: 116.2 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

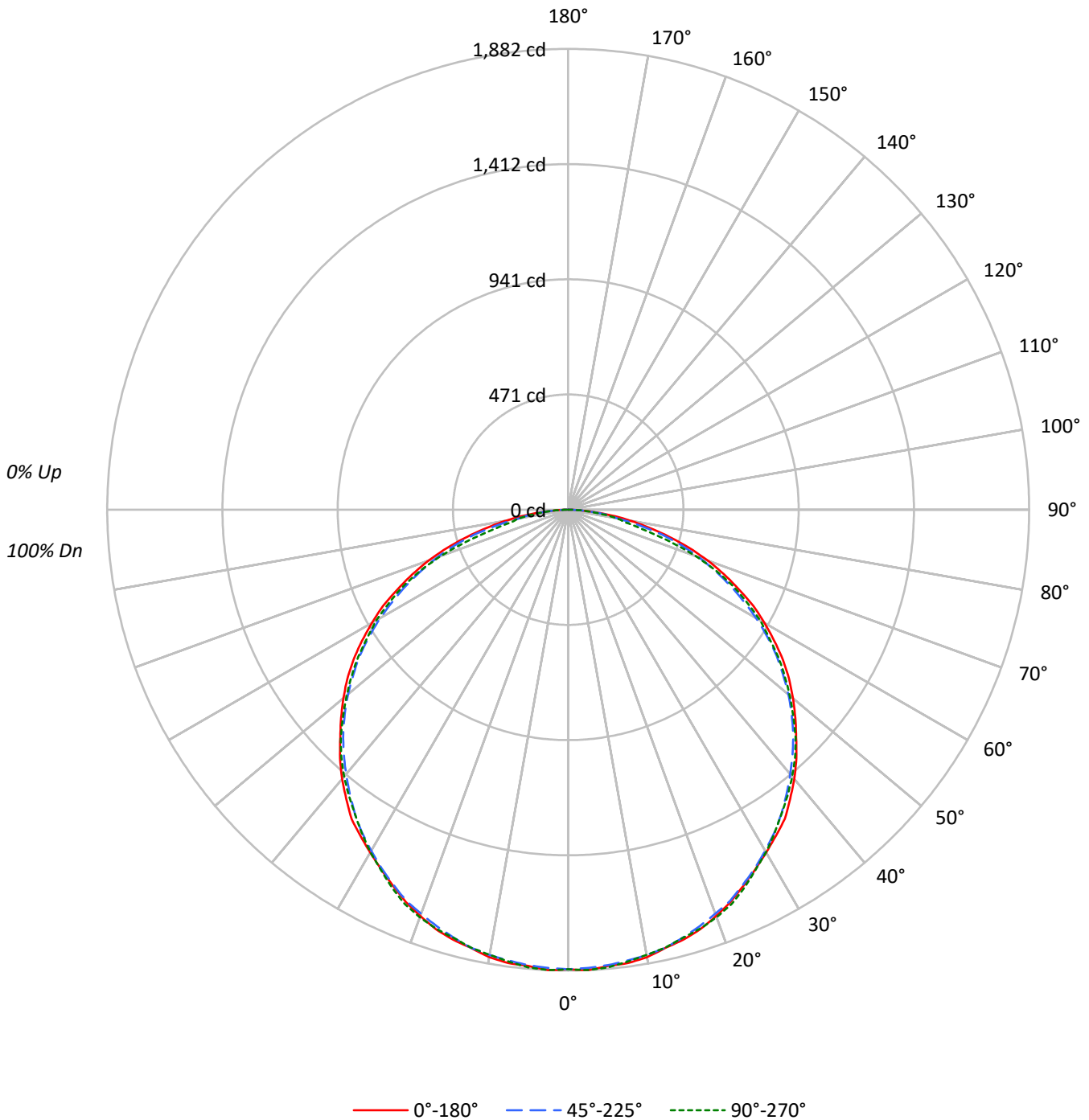
Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2526	2526	2526
5°	2526	2522	2534
10°	2535	2523	2522
15°	2533	2520	2521
20°	2528	2514	2536
25°	2514	2508	2528
30°	2512	2499	2509
35°	2532	2492	2492
40°	2521	2477	2499
45°	2504	2472	2497
50°	2507	2456	2470
55°	2511	2436	2454
60°	2491	2384	2436
65°	2442	2316	2375
70°	2381	2235	2179
75°	2213	2077	1678
80°	1998	1587	1581
85°	1601	1457	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.7	3.2
10°-20°	511.3	9.1
20°-30°	780.8	13.9
30°-40°	951.3	17.0
40°-50°	1007.2	17.9
50°-60°	933.1	16.6
60°-70°	732.6	13.1
70°-80°	408.4	7.3
80°-90°	108.9	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°	1469.8	26.2
0°-40°	2421.1	43.1
0°-60°	4361.4	77.7
0°-90°	5611.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5611.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1877	1877	1877	1877	1877	
5°	1870	1874	1867	1864	1876	178
15°	1818	1811	1809	1806	1810	513
25°	1693	1695	1689	1692	1703	782
35°	1542	1523	1517	1510	1517	961
45°	1316	1313	1299	1301	1312	1018
55°	1070	1053	1038	1033	1046	955
65°	767	751	727	737	746	761
75°	426	411	400	343	323	452
85°	104	95	94	87	86	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1877.1	1877.1	1877.1	1877.1	1877.1
2.5°	1882.2	1873.8	1872.9	1874.6	1881.4
5°	1870.4	1873.8	1867.0	1864.5	1876.3
7.5°	1867.9	1866.2	1856.9	1851.0	1861.1
10°	1855.2	1852.7	1846.8	1837.5	1845.9
12.5°	1833.3	1835.0	1832.5	1822.3	1831.6
15°	1818.1	1811.4	1808.9	1805.5	1809.7
17.5°	1796.2	1782.7	1783.6	1788.6	1793.7
20°	1765.9	1754.1	1755.8	1765.0	1770.9
22.5°	1733.0	1727.9	1728.8	1732.2	1743.1
25°	1693.4	1695.1	1689.2	1691.7	1702.7
27.5°	1654.6	1660.5	1650.4	1647.9	1657.1
30°	1616.7	1619.2	1608.3	1602.4	1615.0
32.5°	1578.8	1572.8	1565.3	1556.8	1566.9
35°	1541.7	1523.1	1517.2	1510.5	1517.2
37.5°	1488.6	1473.4	1464.1	1465.0	1470.9
40°	1435.5	1418.6	1410.2	1416.9	1422.8
42.5°	1379.0	1363.8	1356.2	1361.3	1371.4
45°	1315.8	1313.2	1298.9	1300.6	1312.4
47.5°	1257.6	1254.2	1237.4	1237.4	1245.8
50°	1197.8	1188.5	1173.3	1168.3	1180.1
52.5°	1137.1	1121.1	1105.0	1103.4	1113.5
55°	1070.5	1052.8	1038.5	1032.6	1046.0
57.5°	998.0	981.1	962.6	962.6	971.0
60°	925.5	905.3	885.9	886.7	905.3
62.5°	852.2	831.9	805.0	810.0	825.2
65°	767.0	751.0	727.4	736.7	746.0
67.5°	688.6	670.9	646.5	654.9	654.9
70°	605.2	582.4	568.1	558.8	553.8
72.5°	517.5	496.5	486.4	452.6	438.3
75°	425.7	411.3	399.5	343.1	322.8
77.5°	338.0	330.4	298.4	249.5	237.7
80°	257.9	252.0	204.8	203.1	204.0
82.5°	176.2	169.4	156.8	146.7	141.6
85°	103.7	95.2	94.4	86.8	86.0
87.5°	34.6	37.9	39.6	38.8	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)