

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: P393656

Luminaire Tested: **24EN-LD2-67-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393656
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 (5700K)
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: 5697.7 lumens
Efficiency: N/A
Efficacy: 118.0 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

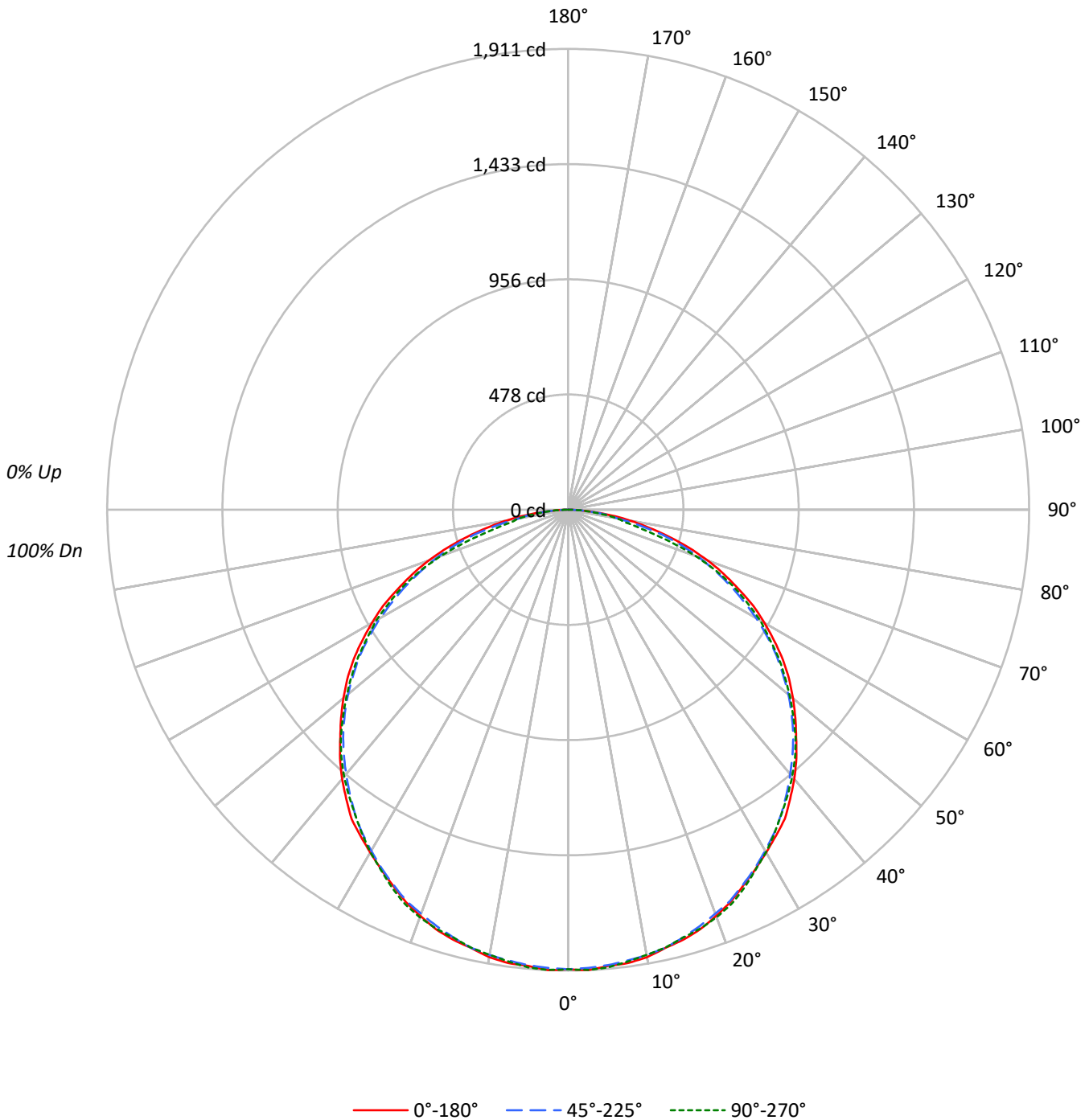
Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2565	2565	2565
5°	2565	2560	2573
10°	2574	2562	2561
15°	2572	2558	2560
20°	2567	2553	2575
25°	2553	2546	2567
30°	2550	2537	2548
35°	2571	2530	2530
40°	2560	2515	2537
45°	2542	2510	2536
50°	2546	2494	2508
55°	2550	2473	2491
60°	2529	2421	2474
65°	2479	2351	2411
70°	2417	2269	2212
75°	2247	2109	1704
80°	2029	1612	1605
85°	1626	1480	1348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	3.2
10°-20°	519.1	9.1
20°-30°	792.8	13.9
30°-40°	966.0	17.0
40°-50°	1022.7	17.9
50°-60°	947.4	16.6
60°-70°	743.9	13.1
70°-80°	414.7	7.3
80°-90°	110.6	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°	1492.4	26.2
0°-40°	2458.3	43.1
0°-60°	4428.5	77.7
0°-90°	5697.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5697.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1906	1906	1906	1906	1906	
5°	1899	1903	1896	1893	1905	181
15°	1846	1839	1837	1833	1838	521
25°	1719	1721	1715	1718	1729	794
35°	1565	1547	1541	1534	1541	976
45°	1336	1333	1319	1321	1333	1033
55°	1087	1069	1054	1048	1062	969
65°	779	763	739	748	757	772
75°	432	418	406	348	328	459
85°	105	97	96	88	87	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1906.0	1906.0	1906.0	1906.0	1906.0
2.5°	1911.2	1902.6	1901.7	1903.5	1910.3
5°	1899.2	1902.6	1895.7	1893.2	1905.2
7.5°	1896.6	1894.9	1885.5	1879.5	1889.8
10°	1883.8	1881.2	1875.2	1865.8	1874.4
12.5°	1861.5	1863.2	1860.7	1850.4	1859.8
15°	1846.1	1839.3	1836.7	1833.3	1837.5
17.5°	1823.9	1810.2	1811.0	1816.2	1821.3
20°	1793.0	1781.1	1782.8	1792.2	1798.2
22.5°	1759.7	1754.5	1755.4	1758.8	1769.9
25°	1719.4	1721.2	1715.2	1717.7	1728.9
27.5°	1680.1	1686.1	1675.8	1673.2	1682.6
30°	1641.6	1644.1	1633.0	1627.0	1639.8
32.5°	1603.0	1597.0	1589.3	1580.8	1591.1
35°	1565.4	1546.6	1540.6	1533.7	1540.6
37.5°	1511.5	1496.1	1486.6	1487.5	1493.5
40°	1457.5	1440.4	1431.9	1438.7	1444.7
42.5°	1400.2	1384.8	1377.1	1382.2	1392.5
45°	1336.0	1333.4	1318.9	1320.6	1332.6
47.5°	1277.0	1273.5	1256.4	1256.4	1265.0
50°	1216.2	1206.8	1191.4	1186.2	1198.2
52.5°	1154.6	1138.3	1122.0	1120.3	1130.6
55°	1087.0	1069.0	1054.4	1048.4	1062.1
57.5°	1013.3	996.2	977.4	977.4	986.0
60°	939.7	919.2	899.5	900.4	919.2
62.5°	865.3	844.7	817.4	822.5	837.9
65°	778.8	762.6	738.6	748.0	757.4
67.5°	699.2	681.3	656.5	665.0	665.0
70°	614.5	591.4	576.9	567.4	562.3
72.5°	525.5	504.1	493.8	459.6	445.1
75°	432.2	417.7	405.7	348.3	327.8
77.5°	343.2	335.5	303.0	253.3	241.4
80°	261.9	255.9	208.0	206.3	207.1
82.5°	178.9	172.0	159.2	148.9	143.8
85°	105.3	96.7	95.9	88.2	87.3
87.5°	35.1	38.5	40.2	39.4	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)