

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: P393658

Luminaire Tested: **24EN-LD2-67-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393658
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 (2700K)
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: 5748.1 lumens
Efficiency: N/A
Efficacy: 119.3 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

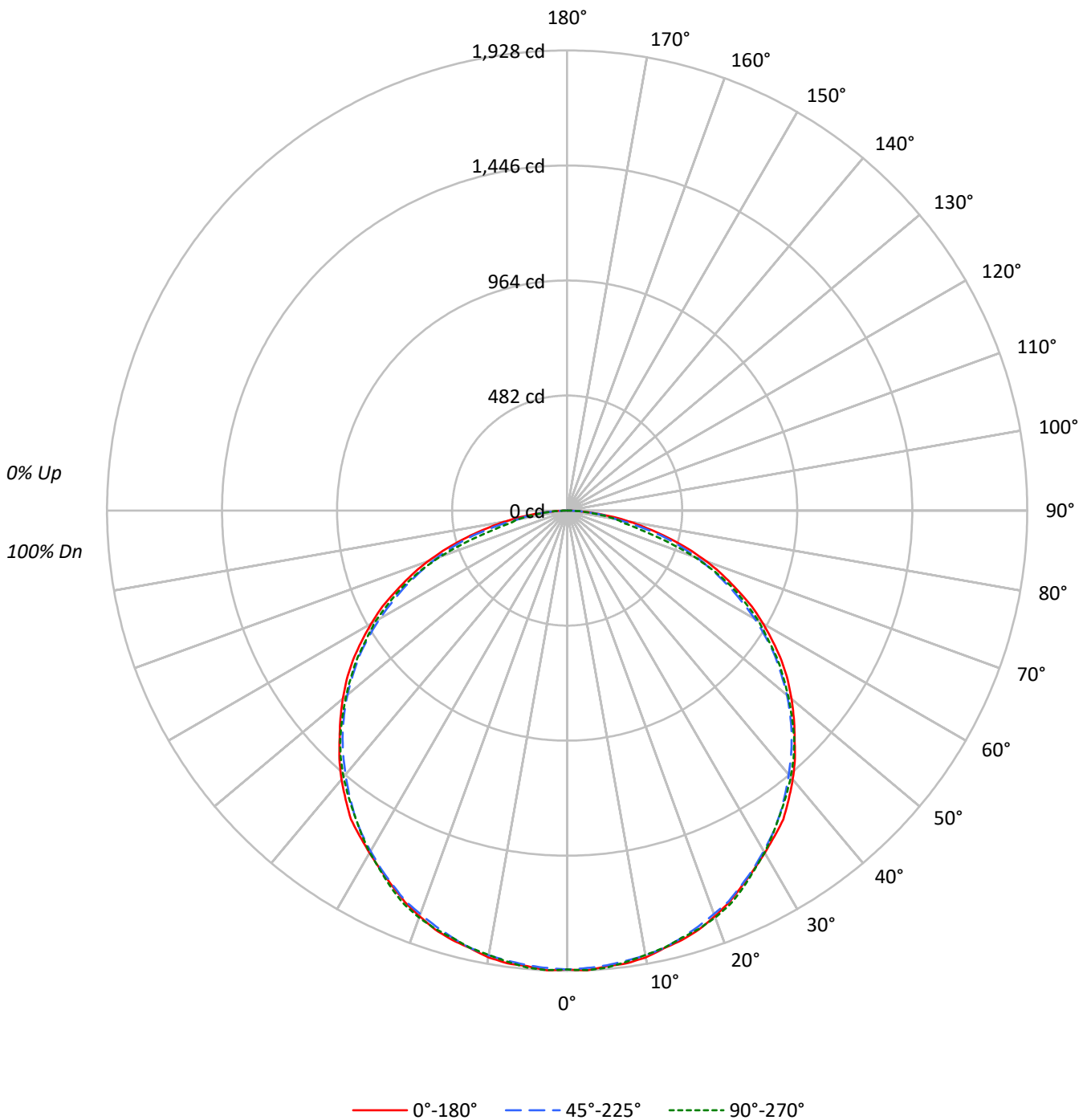
Input Watts (W): 48.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2587	2587	2587
5°	2588	2583	2596
10°	2596	2585	2583
15°	2594	2581	2582
20°	2590	2575	2598
25°	2575	2569	2589
30°	2573	2559	2570
35°	2594	2553	2553
40°	2583	2537	2560
45°	2565	2532	2558
50°	2568	2516	2530
55°	2572	2495	2514
60°	2551	2442	2495
65°	2501	2372	2433
70°	2439	2290	2232
75°	2267	2128	1719
80°	2047	1626	1619
85°	1639	1493	1360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	3.2
10°-20°	523.7	9.1
20°-30°	799.8	13.9
30°-40°	974.5	17.0
40°-50°	1031.7	17.9
50°-60°	955.8	16.6
60°-70°	750.5	13.1
70°-80°	418.4	7.3
80°-90°	111.6	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°	1505.5	26.2
0°-40°	2480.1	43.1
0°-60°	4467.6	77.7
0°-90°	5748.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5748.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1916	1919	1912	1910	1922	183
15°	1862	1856	1853	1850	1854	526
25°	1735	1736	1730	1733	1744	801
35°	1579	1560	1554	1547	1554	985
45°	1348	1345	1330	1332	1344	1042
55°	1097	1078	1064	1058	1072	978
65°	786	769	745	755	764	779
75°	436	421	409	351	331	463
85°	106	98	97	89	88	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1922.9	1922.9	1922.9	1922.9	1922.9
2.5°	1928.0	1919.4	1918.5	1920.3	1927.2
5°	1916.0	1919.4	1912.5	1909.9	1922.0
7.5°	1913.4	1911.6	1902.1	1896.1	1906.5
10°	1900.4	1897.8	1891.8	1882.3	1890.9
12.5°	1878.0	1879.7	1877.1	1866.7	1876.2
15°	1862.4	1855.5	1852.9	1849.5	1853.8
17.5°	1840.0	1826.2	1827.0	1832.2	1837.4
20°	1808.9	1796.8	1798.5	1808.0	1814.1
22.5°	1775.2	1770.0	1770.9	1774.4	1785.6
25°	1734.6	1736.4	1730.3	1732.9	1744.1
27.5°	1694.9	1701.0	1690.6	1688.0	1697.5
30°	1656.1	1658.7	1647.4	1641.4	1654.3
32.5°	1617.2	1611.2	1603.4	1594.8	1605.1
35°	1579.2	1560.2	1554.2	1547.3	1554.2
37.5°	1524.8	1509.3	1499.8	1500.6	1506.7
40°	1470.4	1453.2	1444.5	1451.4	1457.5
42.5°	1412.6	1397.0	1389.3	1394.4	1404.8
45°	1347.8	1345.2	1330.5	1332.3	1344.4
47.5°	1288.2	1284.8	1267.5	1267.5	1276.2
50°	1226.9	1217.4	1201.9	1196.7	1208.8
52.5°	1164.8	1148.4	1132.0	1130.2	1140.6
55°	1096.6	1078.4	1063.7	1057.7	1071.5
57.5°	1022.3	1005.0	986.0	986.0	994.7
60°	948.0	927.3	907.5	908.3	927.3
62.5°	872.9	852.2	824.6	829.8	845.3
65°	785.7	769.3	745.1	754.6	764.1
67.5°	705.4	687.3	662.3	670.9	670.9
70°	619.9	596.6	582.0	572.5	567.3
72.5°	530.1	508.6	498.2	463.7	449.0
75°	436.0	421.4	409.3	351.4	330.7
77.5°	346.2	338.5	305.7	255.6	243.5
80°	264.2	258.2	209.8	208.1	209.0
82.5°	180.5	173.5	160.6	150.2	145.1
85°	106.2	97.6	96.7	88.9	88.1
87.5°	35.4	38.9	40.6	39.7	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)