

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: P393663

Luminaire Tested: **24EN-LD2-67-UNV-L93050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393663
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 (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: 5872.7 lumens
Efficiency: N/A
Efficacy: 123.4 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

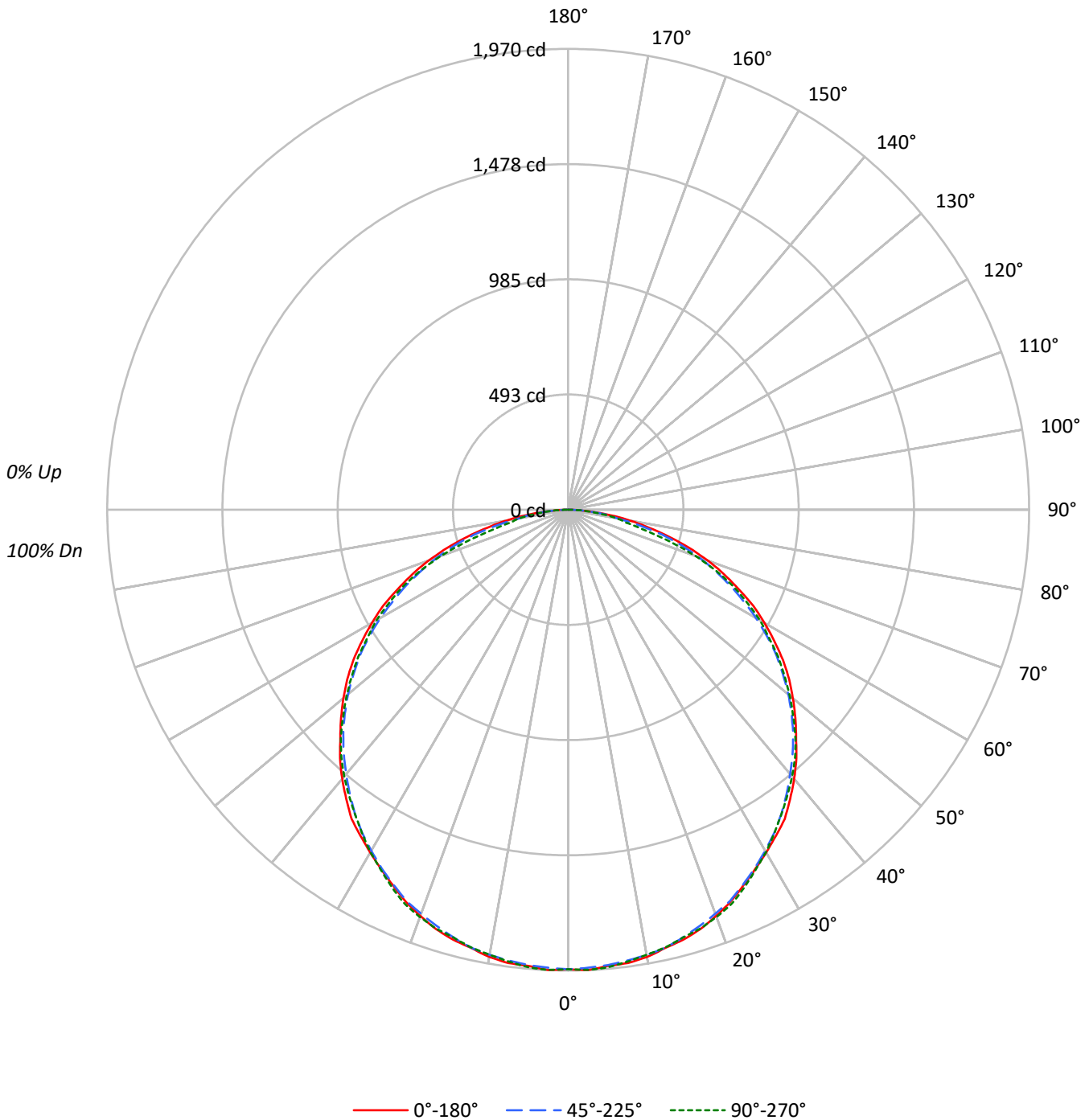
Input Watts (W): 47.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2643	2643	2643
5°	2644	2639	2652
10°	2653	2641	2639
15°	2651	2637	2638
20°	2646	2631	2654
25°	2631	2624	2645
30°	2629	2615	2626
35°	2650	2608	2608
40°	2639	2592	2615
45°	2620	2587	2614
50°	2624	2570	2585
55°	2628	2549	2568
60°	2606	2495	2549
65°	2556	2424	2486
70°	2492	2339	2280
75°	2316	2174	1757
80°	2091	1661	1654
85°	1675	1525	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	3.2
10°-20°	535.1	9.1
20°-30°	817.1	13.9
30°-40°	995.6	17.0
40°-50°	1054.1	17.9
50°-60°	976.5	16.6
60°-70°	766.8	13.1
70°-80°	427.4	7.3
80°-90°	114.0	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°	1538.2	26.2
0°-40°	2533.8	43.1
0°-60°	4564.5	77.7
0°-90°	5872.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5872.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1958	1961	1954	1951	1964	187
15°	1903	1896	1893	1890	1894	537
25°	1772	1774	1768	1770	1782	818
35°	1614	1594	1588	1581	1588	1006
45°	1377	1374	1359	1361	1374	1065
55°	1120	1102	1087	1081	1095	999
65°	803	786	761	771	781	796
75°	446	430	418	359	338	473
85°	108	100	99	91	90	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1964.5	1964.5	1964.5	1964.5	1964.5
2.5°	1969.8	1961.0	1960.1	1961.9	1969.0
5°	1957.5	1961.0	1954.0	1951.3	1963.7
7.5°	1954.8	1953.1	1943.4	1937.2	1947.8
10°	1941.6	1939.0	1932.8	1923.1	1931.9
12.5°	1918.7	1920.4	1917.8	1907.2	1916.9
15°	1902.8	1895.7	1893.1	1889.6	1894.0
17.5°	1879.9	1865.7	1866.6	1871.9	1877.2
20°	1848.1	1835.8	1837.5	1847.2	1853.4
22.5°	1813.7	1808.4	1809.3	1812.8	1824.3
25°	1772.2	1774.0	1767.8	1770.5	1781.9
27.5°	1731.7	1737.8	1727.2	1724.6	1734.3
30°	1692.0	1694.6	1683.1	1677.0	1690.2
32.5°	1652.3	1646.1	1638.2	1629.3	1639.9
35°	1613.5	1594.0	1587.9	1580.8	1587.9
37.5°	1557.9	1542.0	1532.3	1533.2	1539.3
40°	1502.3	1484.7	1475.8	1482.9	1489.1
42.5°	1443.2	1427.3	1419.4	1424.7	1435.3
45°	1377.0	1374.4	1359.4	1361.2	1373.5
47.5°	1316.2	1312.6	1295.0	1295.0	1303.8
50°	1253.5	1243.8	1228.0	1222.7	1235.0
52.5°	1190.0	1173.3	1156.5	1154.7	1165.3
55°	1120.3	1101.8	1086.8	1080.6	1094.7
57.5°	1044.5	1026.8	1007.4	1007.4	1016.2
60°	968.6	947.4	927.1	928.0	947.4
62.5°	891.9	870.7	842.5	847.7	863.6
65°	802.8	786.0	761.3	771.0	780.7
67.5°	720.7	702.2	676.6	685.4	685.4
70°	633.4	609.6	594.6	584.9	579.6
72.5°	541.6	519.6	509.0	473.7	458.7
75°	445.5	430.5	418.1	359.0	337.9
77.5°	353.7	345.8	312.3	261.1	248.8
80°	269.9	263.8	214.4	212.6	213.5
82.5°	184.4	177.3	164.1	153.5	148.2
85°	108.5	99.7	98.8	90.9	90.0
87.5°	36.2	39.7	41.5	40.6	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)