

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: P393661

Luminaire Tested: **24EN-LD2-67-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393661
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 (4000K)
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: 5815.1 lumens
Efficiency: N/A
Efficacy: 121.1 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

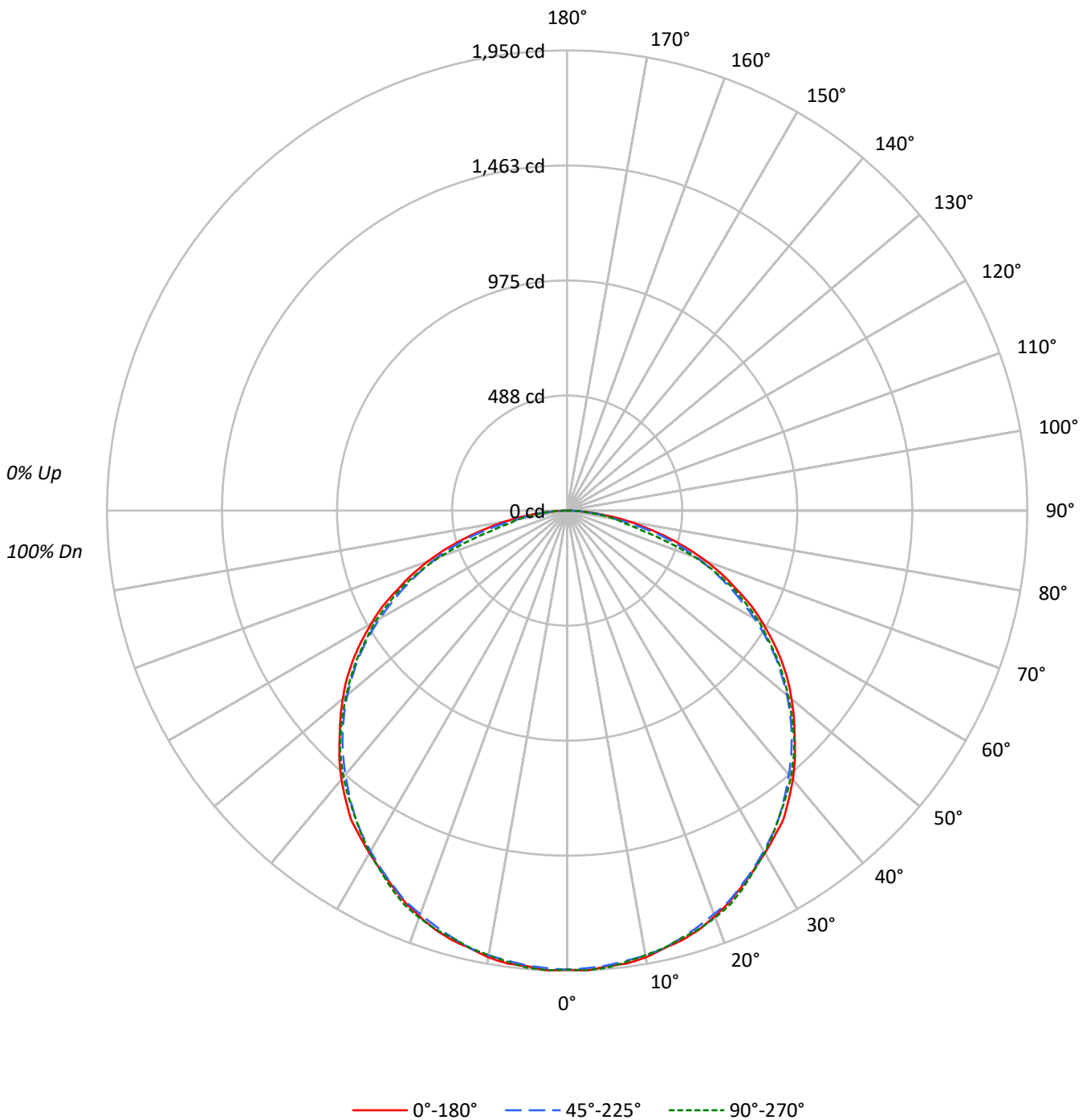
Input Watts (W): 48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2617	2617	2617
5°	2618	2613	2626
10°	2627	2615	2614
15°	2625	2611	2612
20°	2620	2605	2628
25°	2605	2599	2620
30°	2603	2589	2600
35°	2624	2583	2583
40°	2613	2567	2590
45°	2594	2561	2588
50°	2598	2545	2560
55°	2602	2525	2543
60°	2581	2471	2524
65°	2531	2400	2461
70°	2467	2316	2258
75°	2293	2152	1739
80°	2071	1645	1638
85°	1658	1510	1376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	3.2
10°-20°	529.8	9.1
20°-30°	809.1	13.9
30°-40°	985.9	17.0
40°-50°	1043.8	17.9
50°-60°	967.0	16.6
60°-70°	759.2	13.1
70°-80°	423.2	7.3
80°-90°	112.9	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°	1523.1	26.2
0°-40°	2509.0	43.1
0°-60°	4519.7	77.7
0°-90°	5815.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5815.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1945	1945	1945	1945	1945	
5°	1938	1942	1935	1932	1944	185
15°	1884	1877	1874	1871	1875	532
25°	1755	1757	1750	1753	1764	810
35°	1598	1578	1572	1565	1572	996
45°	1364	1361	1346	1348	1360	1055
55°	1109	1091	1076	1070	1084	989
65°	795	778	754	763	773	788
75°	441	426	414	356	335	468
85°	107	99	98	90	89	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1945.3	1945.3	1945.3	1945.3	1945.3
2.5°	1950.5	1941.8	1940.9	1942.7	1949.7
5°	1938.3	1941.8	1934.8	1932.2	1944.4
7.5°	1935.7	1933.9	1924.3	1918.2	1928.7
10°	1922.6	1920.0	1913.9	1904.2	1913.0
12.5°	1899.9	1901.6	1899.0	1888.5	1898.1
15°	1884.2	1877.2	1874.5	1871.0	1875.4
17.5°	1861.4	1847.5	1848.3	1853.6	1858.8
20°	1830.0	1817.8	1819.5	1829.1	1835.2
22.5°	1795.9	1790.7	1791.6	1795.1	1806.4
25°	1754.9	1756.6	1750.5	1753.1	1764.5
27.5°	1714.7	1720.8	1710.3	1707.7	1717.3
30°	1675.4	1678.0	1666.6	1660.5	1673.6
32.5°	1636.1	1630.0	1622.1	1613.4	1623.8
35°	1597.6	1578.4	1572.3	1565.3	1572.3
37.5°	1542.6	1526.9	1517.3	1518.2	1524.3
40°	1487.6	1470.1	1461.4	1468.4	1474.5
42.5°	1429.1	1413.3	1405.5	1410.7	1421.2
45°	1363.5	1360.9	1346.1	1347.8	1360.0
47.5°	1303.3	1299.8	1282.3	1282.3	1291.0
50°	1241.3	1231.6	1215.9	1210.7	1222.9
52.5°	1178.4	1161.8	1145.2	1143.4	1153.9
55°	1109.4	1091.0	1076.2	1070.0	1084.0
57.5°	1034.2	1016.8	997.5	997.5	1006.3
60°	959.1	938.1	918.1	918.9	938.1
62.5°	883.1	862.2	834.2	839.4	855.2
65°	794.9	778.3	753.8	763.4	773.1
67.5°	713.7	695.3	670.0	678.7	678.7
70°	627.2	603.6	588.7	579.1	573.9
72.5°	536.3	514.5	504.0	469.1	454.2
75°	441.1	426.3	414.0	355.5	334.6
77.5°	350.3	342.4	309.2	258.6	246.3
80°	267.3	261.2	212.3	210.5	211.4
82.5°	182.6	175.6	162.5	152.0	146.7
85°	107.4	98.7	97.8	90.0	89.1
87.5°	35.8	39.3	41.1	40.2	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)