

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: P393611

Luminaire Tested: **24EN-LD2-58-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-37)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-58-UNV-L83050-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 5800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5713.3 lumens
Efficiency: N/A
Efficacy: 135.7 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

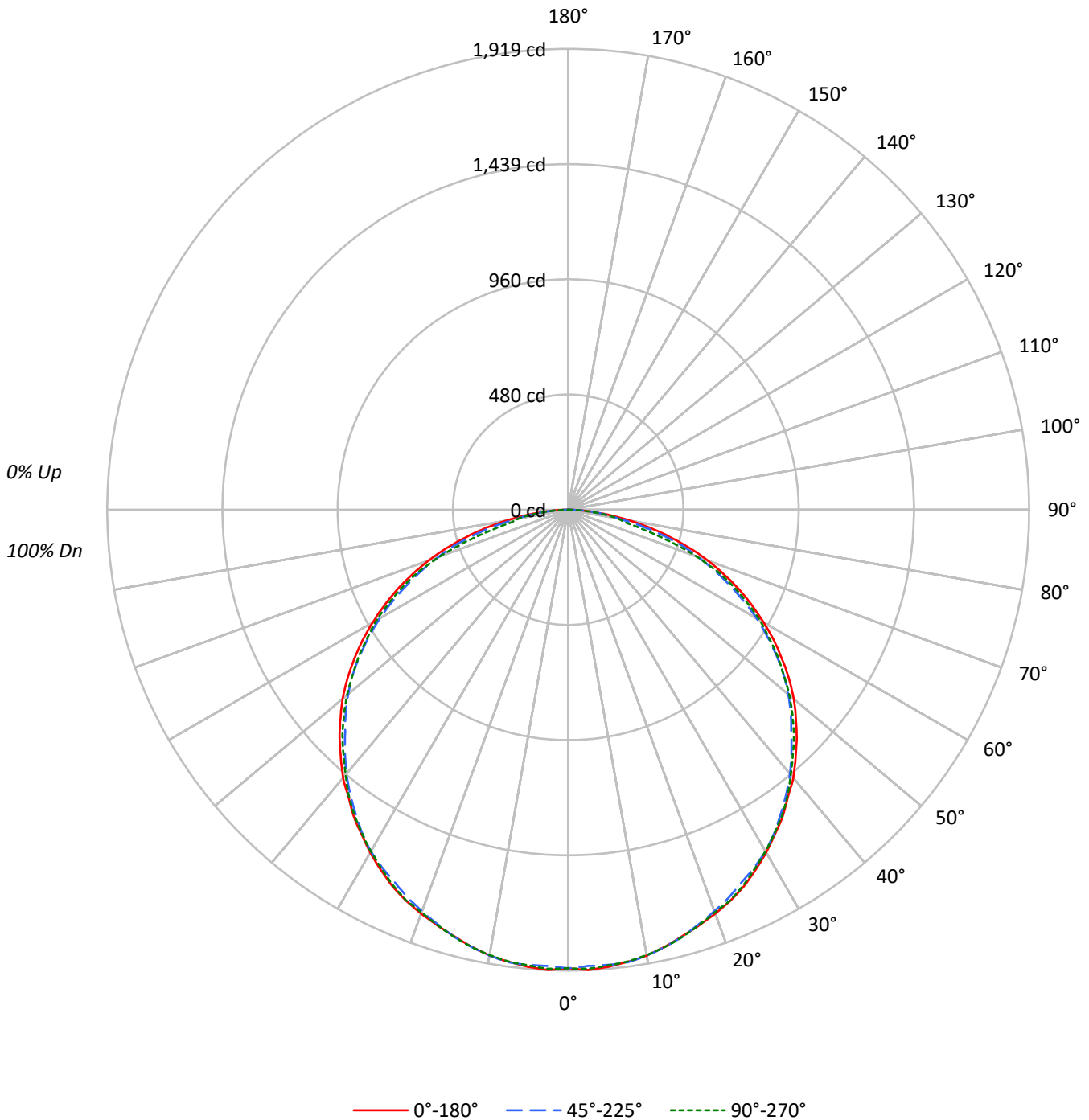
Input Watts (W): 42.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	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	41	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°	2570	2570	2570
5°	2581	2570	2573
10°	2576	2576	2573
15°	2560	2563	2564
20°	2563	2547	2554
25°	2570	2540	2562
30°	2561	2553	2553
35°	2558	2536	2550
40°	2561	2523	2532
45°	2561	2500	2529
50°	2566	2502	2517
55°	2553	2483	2497
60°	2529	2436	2484
65°	2497	2356	2422
70°	2431	2264	2230
75°	2276	2092	1739
80°	2013	1654	1616
85°	1550	1504	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	3.2
10°-20°	519.3	9.1
20°-30°	793.1	13.9
30°-40°	967.9	16.9
40°-50°	1023.5	17.9
50°-60°	951.9	16.7
60°-70°	746.6	13.1
70°-80°	418.8	7.3
80°-90°	111.2	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°	1493.3	26.1
0°-40°	2461.2	43.1
0°-60°	4436.7	77.7
0°-90°	5713.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5713.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1911	1903	1903	1897	1905	182
15°	1838	1840	1840	1835	1841	520
25°	1731	1720	1711	1721	1726	797
35°	1558	1553	1544	1535	1553	974
45°	1346	1332	1314	1322	1329	1038
55°	1088	1076	1059	1055	1065	972
65°	784	764	740	748	761	774
75°	438	422	402	357	334	464
85°	100	96	97	90	89	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1909.8	1909.8	1909.8	1909.8	1909.8
2.5°	1918.7	1905.9	1902.0	1905.9	1913.8
5°	1910.8	1903.0	1903.0	1897.1	1904.9
7.5°	1899.0	1896.1	1901.0	1885.2	1898.0
10°	1885.2	1880.3	1885.2	1868.5	1883.3
12.5°	1863.6	1862.6	1864.6	1855.7	1864.6
15°	1838.0	1840.0	1840.0	1835.1	1841.0
17.5°	1814.4	1815.4	1809.5	1815.4	1813.4
20°	1789.8	1787.8	1779.0	1789.8	1783.9
22.5°	1763.2	1757.3	1747.5	1758.3	1761.3
25°	1730.8	1719.9	1711.1	1720.9	1725.8
27.5°	1690.4	1679.6	1678.6	1678.6	1683.5
30°	1648.1	1640.2	1643.2	1635.3	1643.2
32.5°	1601.9	1598.9	1596.9	1586.1	1597.9
35°	1557.6	1552.7	1543.8	1535.0	1552.7
37.5°	1503.5	1500.5	1491.7	1486.7	1500.5
40°	1458.2	1446.4	1436.6	1433.6	1441.5
42.5°	1401.1	1387.4	1375.6	1380.5	1384.4
45°	1346.0	1332.3	1313.6	1322.4	1329.3
47.5°	1286.0	1271.3	1256.5	1262.4	1266.3
50°	1226.0	1207.3	1195.5	1194.5	1202.4
52.5°	1159.1	1143.3	1131.5	1127.6	1130.6
55°	1088.2	1075.5	1058.7	1054.8	1064.6
57.5°	1016.4	1002.6	983.0	980.0	989.9
60°	939.7	925.9	905.2	905.2	922.9
62.5°	862.9	847.2	823.6	828.5	841.3
65°	784.2	763.5	739.9	747.8	760.6
67.5°	701.6	681.9	658.3	665.1	673.0
70°	617.9	596.3	575.6	569.7	566.8
72.5°	530.3	507.7	496.9	468.4	450.6
75°	437.9	422.1	402.4	357.2	334.5
77.5°	352.3	338.5	309.0	254.8	242.1
80°	259.8	258.8	213.5	207.6	208.6
82.5°	176.1	172.2	160.4	149.6	150.5
85°	100.4	96.4	97.4	90.5	88.6
87.5°	36.4	39.4	38.4	39.4	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)