

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: P393602

Luminaire Tested: **24EN-LD2-58-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393602
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-L82765-W2A-1-U (2700K)
Description: 2X4 ENCOUNTER, 5800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5274.8 lumens
Efficiency: N/A
Efficacy: 127.1 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

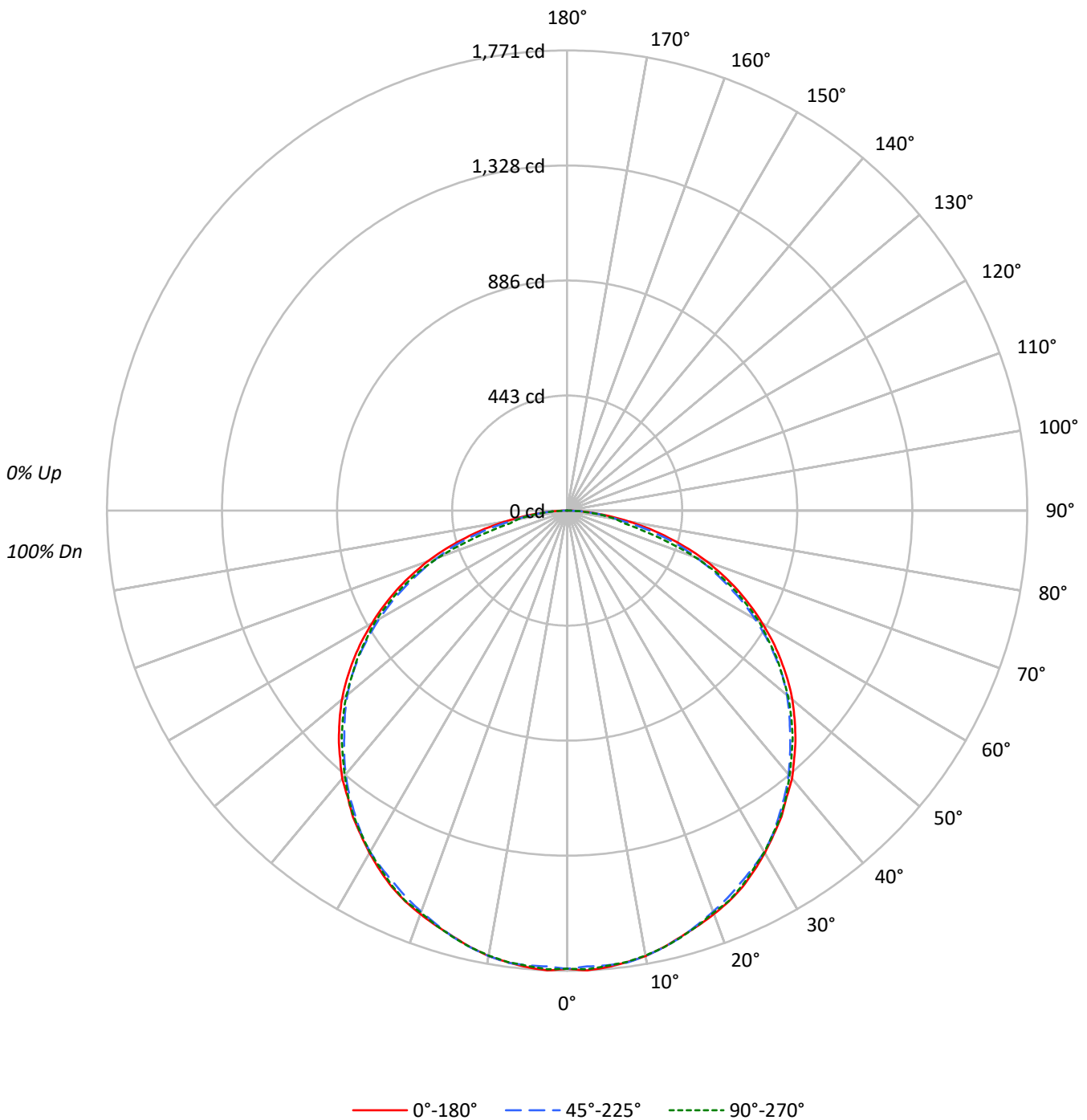
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2373	2373	2373
5°	2383	2373	2375
10°	2378	2378	2375
15°	2364	2366	2368
20°	2366	2352	2358
25°	2372	2345	2366
30°	2364	2357	2357
35°	2362	2341	2355
40°	2365	2330	2338
45°	2365	2308	2335
50°	2369	2310	2324
55°	2357	2293	2306
60°	2335	2249	2293
65°	2305	2175	2236
70°	2244	2090	2059
75°	2102	1931	1606
80°	1858	1527	1492
85°	1431	1388	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	3.2
10°-20°	479.4	9.1
20°-30°	732.2	13.9
30°-40°	893.6	16.9
40°-50°	945.0	17.9
50°-60°	878.9	16.7
60°-70°	689.3	13.1
70°-80°	386.6	7.3
80°-90°	102.7	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°	1378.7	26.1
0°-40°	2272.3	43.1
0°-60°	4096.2	77.7
0°-90°	5274.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5274.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1764	1757	1757	1752	1759	168
15°	1697	1699	1699	1694	1700	480
25°	1598	1588	1580	1589	1593	736
35°	1438	1434	1425	1417	1434	899
45°	1243	1230	1213	1221	1227	959
55°	1005	993	978	974	983	898
65°	724	705	683	690	702	715
75°	404	390	372	330	309	428
85°	93	89	90	84	82	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763.3	1763.3	1763.3	1763.3	1763.3
2.5°	1771.4	1759.6	1756.0	1759.6	1766.9
5°	1764.2	1756.9	1756.9	1751.5	1758.7
7.5°	1753.3	1750.5	1755.1	1740.6	1752.4
10°	1740.6	1736.0	1740.6	1725.1	1738.7
12.5°	1720.6	1719.7	1721.5	1713.3	1721.5
15°	1696.9	1698.8	1698.8	1694.2	1699.7
17.5°	1675.1	1676.1	1670.6	1676.1	1674.2
20°	1652.4	1650.6	1642.4	1652.4	1647.0
22.5°	1627.9	1622.5	1613.4	1623.4	1626.1
25°	1597.9	1587.9	1579.8	1588.8	1593.4
27.5°	1560.7	1550.7	1549.8	1549.8	1554.3
30°	1521.6	1514.4	1517.1	1509.8	1517.1
32.5°	1478.9	1476.2	1474.4	1464.4	1475.3
35°	1438.0	1433.5	1425.3	1417.2	1433.5
37.5°	1388.1	1385.4	1377.2	1372.6	1385.4
40°	1346.3	1335.4	1326.3	1323.6	1330.9
42.5°	1293.6	1280.9	1270.0	1274.5	1278.2
45°	1242.7	1230.0	1212.8	1220.9	1227.3
47.5°	1187.3	1173.7	1160.1	1165.5	1169.1
50°	1131.9	1114.6	1103.7	1102.8	1110.1
52.5°	1070.1	1055.6	1044.7	1041.1	1043.8
55°	1004.7	992.9	977.5	973.8	982.9
57.5°	938.4	925.7	907.5	904.8	913.9
60°	867.6	854.8	835.8	835.8	852.1
62.5°	796.7	782.2	760.4	764.9	776.7
65°	724.0	704.9	683.1	690.4	702.2
67.5°	647.7	629.5	607.7	614.1	621.4
70°	570.5	550.5	531.4	526.0	523.3
72.5°	489.6	468.8	458.8	432.4	416.1
75°	404.3	389.7	371.5	329.8	308.9
77.5°	325.2	312.5	285.2	235.3	223.5
80°	239.8	238.9	197.1	191.7	192.6
82.5°	162.6	159.0	148.1	138.1	139.0
85°	92.7	89.0	89.9	83.6	81.8
87.5°	33.6	36.3	35.4	36.3	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)