

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: P393603

Luminaire Tested: **24EN-LD2-58-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393603
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 (3000K)
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: 5325.8 lumens
Efficiency: N/A
Efficacy: 128.3 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

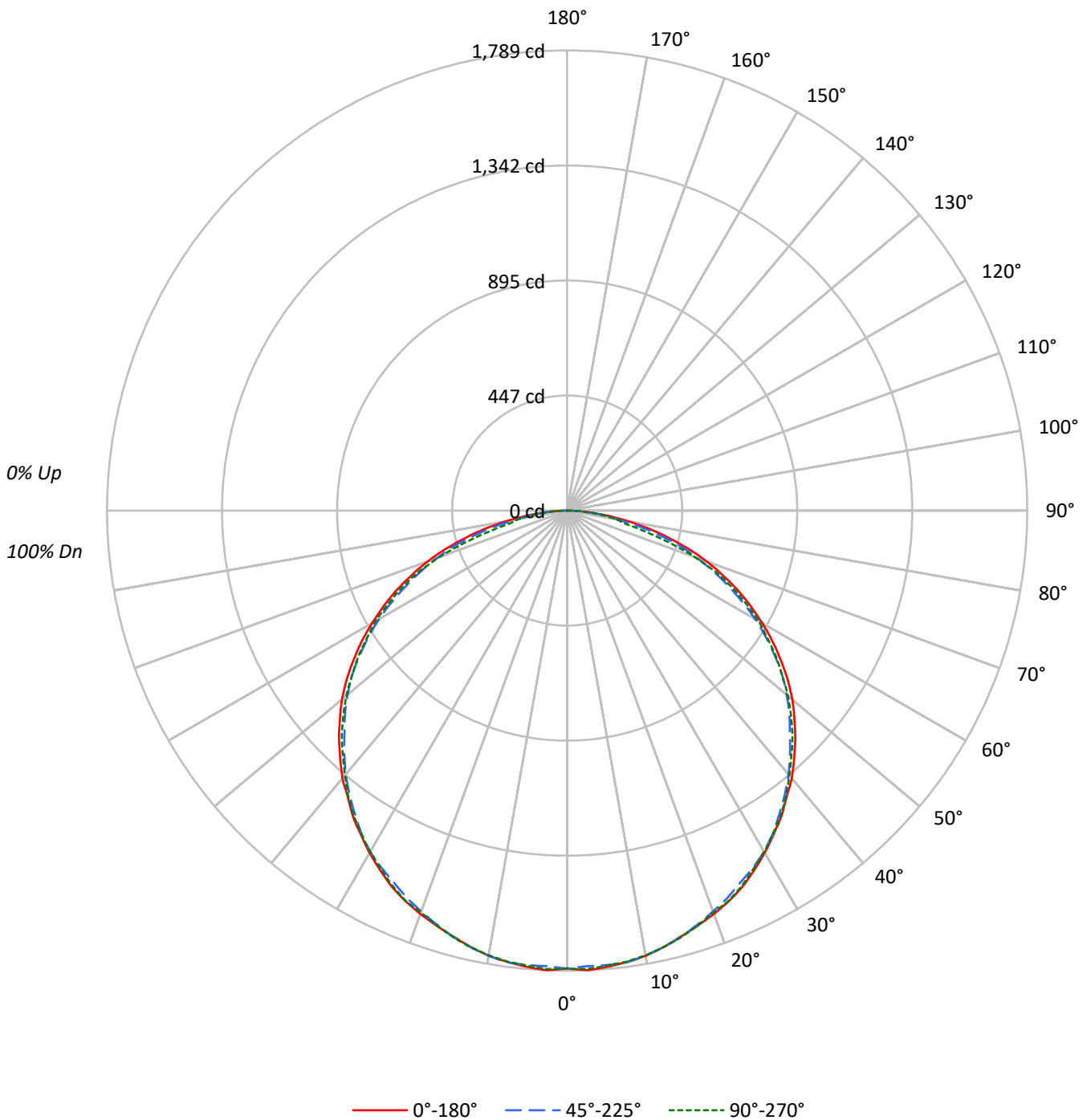
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	67	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	41	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°	2395	2395	2395
5°	2406	2396	2398
10°	2401	2401	2399
15°	2387	2389	2390
20°	2389	2374	2381
25°	2395	2368	2388
30°	2387	2380	2380
35°	2385	2364	2377
40°	2387	2352	2360
45°	2388	2330	2358
50°	2392	2333	2346
55°	2380	2315	2328
60°	2357	2271	2315
65°	2327	2196	2257
70°	2266	2111	2078
75°	2122	1950	1621
80°	1876	1542	1507
85°	1445	1402	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	3.2
10°-20°	484.1	9.1
20°-30°	739.3	13.9
30°-40°	902.3	16.9
40°-50°	954.1	17.9
50°-60°	887.4	16.7
60°-70°	696.0	13.1
70°-80°	390.4	7.3
80°-90°	103.7	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°	1392.0	26.1
0°-40°	2294.3	43.1
0°-60°	4135.8	77.7
0°-90°	5325.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5325.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1781	1774	1774	1768	1776	169
15°	1713	1715	1715	1711	1716	484
25°	1613	1603	1595	1604	1609	743
35°	1452	1447	1439	1431	1447	908
45°	1255	1242	1224	1233	1239	968
55°	1014	1002	987	983	992	906
65°	731	712	690	697	709	722
75°	408	394	375	333	312	432
85°	94	90	91	84	82	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1780.3	1780.3	1780.3	1780.3	1780.3
2.5°	1788.6	1776.7	1773.0	1776.7	1784.0
5°	1781.2	1773.9	1773.9	1768.4	1775.7
7.5°	1770.2	1767.5	1772.1	1757.4	1769.3
10°	1757.4	1752.8	1757.4	1741.8	1755.6
12.5°	1737.2	1736.3	1738.1	1729.9	1738.1
15°	1713.4	1715.2	1715.2	1710.6	1716.1
17.5°	1691.4	1692.3	1686.8	1692.3	1690.4
20°	1668.4	1666.6	1658.3	1668.4	1662.9
22.5°	1643.7	1638.2	1629.0	1639.1	1641.8
25°	1613.4	1603.3	1595.0	1604.2	1608.8
27.5°	1575.8	1565.7	1564.8	1564.8	1569.4
30°	1536.3	1529.0	1531.8	1524.4	1531.8
32.5°	1493.2	1490.5	1488.6	1478.6	1489.6
35°	1452.0	1447.4	1439.1	1430.9	1447.4
37.5°	1401.5	1398.8	1390.5	1385.9	1398.8
40°	1359.3	1348.3	1339.1	1336.4	1343.7
42.5°	1306.1	1293.3	1282.3	1286.9	1290.5
45°	1254.8	1241.9	1224.5	1232.7	1239.2
47.5°	1198.8	1185.0	1171.3	1176.8	1180.5
50°	1142.9	1125.4	1114.4	1113.5	1120.8
52.5°	1080.5	1065.8	1054.8	1051.1	1053.9
55°	1014.4	1002.5	986.9	983.3	992.4
57.5°	947.5	934.6	916.3	913.5	922.7
60°	875.9	863.1	843.8	843.8	860.4
62.5°	804.4	789.7	767.7	772.3	784.2
65°	731.0	711.8	689.7	697.1	709.0
67.5°	654.0	635.6	613.6	620.0	627.4
70°	576.0	555.8	536.6	531.1	528.3
72.5°	494.4	473.3	463.2	436.6	420.1
75°	408.2	393.5	375.1	333.0	311.9
77.5°	328.4	315.5	288.0	237.6	225.6
80°	242.1	241.2	199.0	193.5	194.5
82.5°	164.2	160.5	149.5	139.4	140.3
85°	93.6	89.9	90.8	84.4	82.5
87.5°	33.9	36.7	35.8	36.7	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)