

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: P393607

Luminaire Tested: **24EN-LD2-58-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393607
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 (5000K)
Description: 2X4 ENCOUNTER, 5800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5575.8 lumens
Efficiency: N/A
Efficacy: 135.3 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

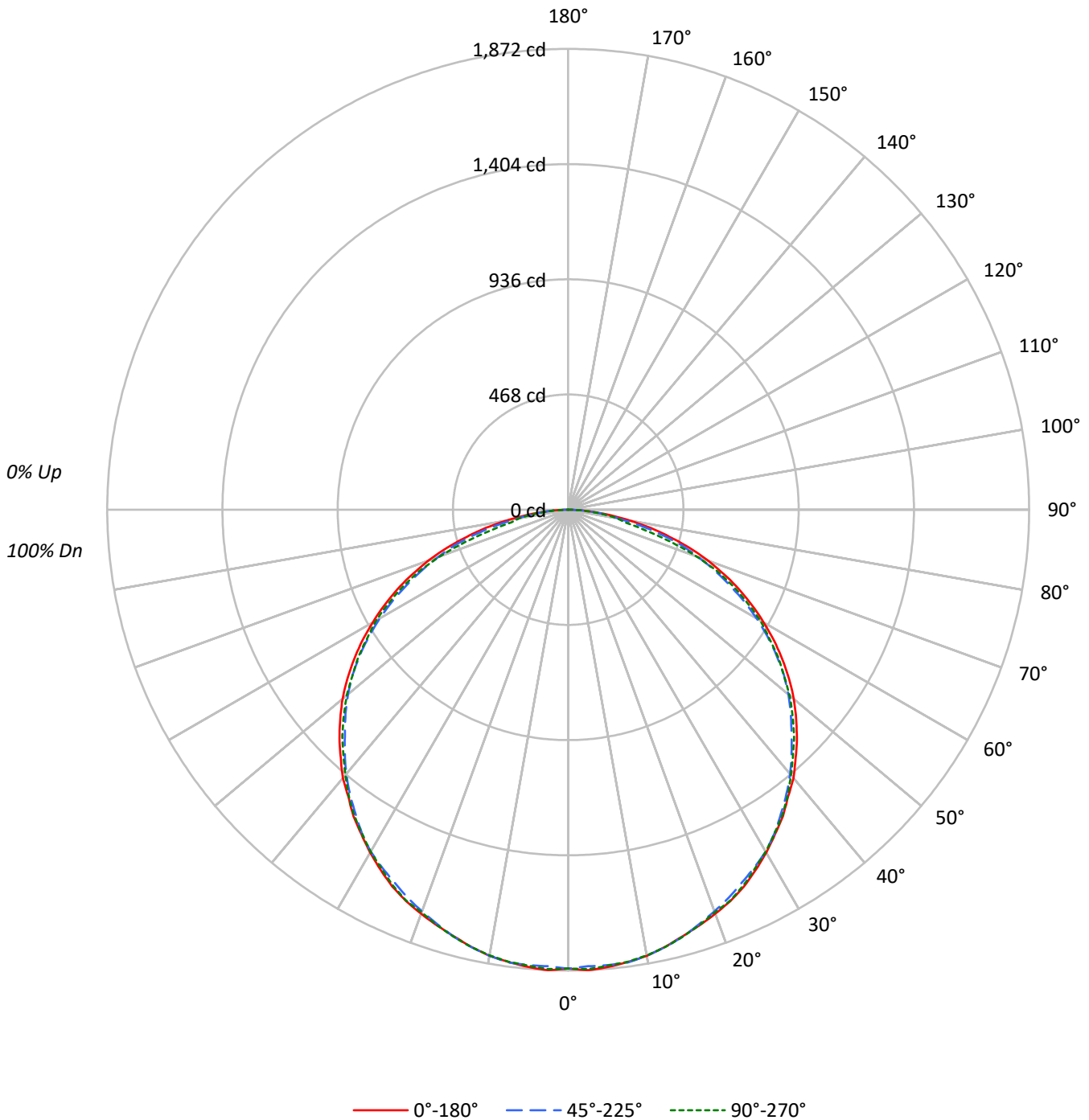
Input Watts (W): 41.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2508	2508	2508
5°	2519	2508	2511
10°	2514	2514	2511
15°	2499	2501	2503
20°	2501	2486	2493
25°	2508	2479	2500
30°	2499	2492	2492
35°	2497	2475	2489
40°	2500	2462	2471
45°	2500	2439	2469
50°	2505	2442	2456
55°	2491	2424	2437
60°	2468	2377	2424
65°	2436	2299	2363
70°	2373	2210	2176
75°	2221	2042	1697
80°	1964	1615	1578
85°	1511	1468	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	3.2
10°-20°	506.8	9.1
20°-30°	774.0	13.9
30°-40°	944.6	16.9
40°-50°	998.9	17.9
50°-60°	929.1	16.7
60°-70°	728.6	13.1
70°-80°	408.7	7.3
80°-90°	108.6	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°	1457.4	26.1
0°-40°	2402.0	43.1
0°-60°	4329.9	77.7
0°-90°	5575.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5575.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1864	1864	1864	1864	1864	
5°	1865	1857	1857	1851	1859	177
15°	1794	1796	1796	1791	1797	507
25°	1689	1679	1670	1680	1684	778
35°	1520	1515	1507	1498	1515	950
45°	1314	1300	1282	1291	1297	1013
55°	1062	1050	1033	1029	1039	949
65°	765	745	722	730	742	755
75°	427	412	393	349	326	453
85°	98	94	95	88	86	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1863.9	1863.9	1863.9	1863.9	1863.9
2.5°	1872.5	1860.0	1856.2	1860.0	1867.7
5°	1864.9	1857.2	1857.2	1851.4	1859.1
7.5°	1853.3	1850.4	1855.2	1839.9	1852.4
10°	1839.9	1835.1	1839.9	1823.6	1838.0
12.5°	1818.8	1817.8	1819.7	1811.1	1819.7
15°	1793.8	1795.7	1795.7	1790.9	1796.7
17.5°	1770.7	1771.7	1765.9	1771.7	1769.8
20°	1746.7	1744.8	1736.2	1746.7	1741.0
22.5°	1720.8	1715.0	1705.4	1716.0	1718.9
25°	1689.1	1678.6	1669.9	1679.5	1684.3
27.5°	1649.7	1639.2	1638.2	1638.2	1643.0
30°	1608.5	1600.8	1603.7	1596.0	1603.7
32.5°	1563.3	1560.4	1558.5	1548.0	1559.5
35°	1520.1	1515.3	1506.7	1498.0	1515.3
37.5°	1467.3	1464.4	1455.8	1451.0	1464.4
40°	1423.1	1411.6	1402.0	1399.1	1406.8
42.5°	1367.4	1354.0	1342.5	1347.3	1351.1
45°	1313.7	1300.2	1282.0	1290.6	1297.3
47.5°	1255.1	1240.7	1226.3	1232.0	1235.9
50°	1196.5	1178.3	1166.7	1165.8	1173.5
52.5°	1131.2	1115.8	1104.3	1100.5	1103.4
55°	1062.1	1049.6	1033.3	1029.4	1039.0
57.5°	992.0	978.5	959.3	956.4	966.0
60°	917.1	903.6	883.5	883.5	900.7
62.5°	842.2	826.8	803.7	808.6	821.0
65°	765.3	745.2	722.1	729.8	742.3
67.5°	684.7	665.5	642.4	649.1	656.8
70°	603.1	581.9	561.8	556.0	553.1
72.5°	517.6	495.5	484.9	457.1	439.8
75°	427.3	412.0	392.8	348.6	326.5
77.5°	343.8	330.3	301.5	248.7	236.2
80°	253.5	252.6	208.4	202.6	203.6
82.5°	171.9	168.0	156.5	146.0	146.9
85°	97.9	94.1	95.1	88.3	86.4
87.5°	35.5	38.4	37.5	38.4	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)