

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: P393606

Luminaire Tested: **24EN-LD2-58-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393606
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 (4500K)
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: 5584.9 lumens
Efficiency: N/A
Efficacy: 134.9 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

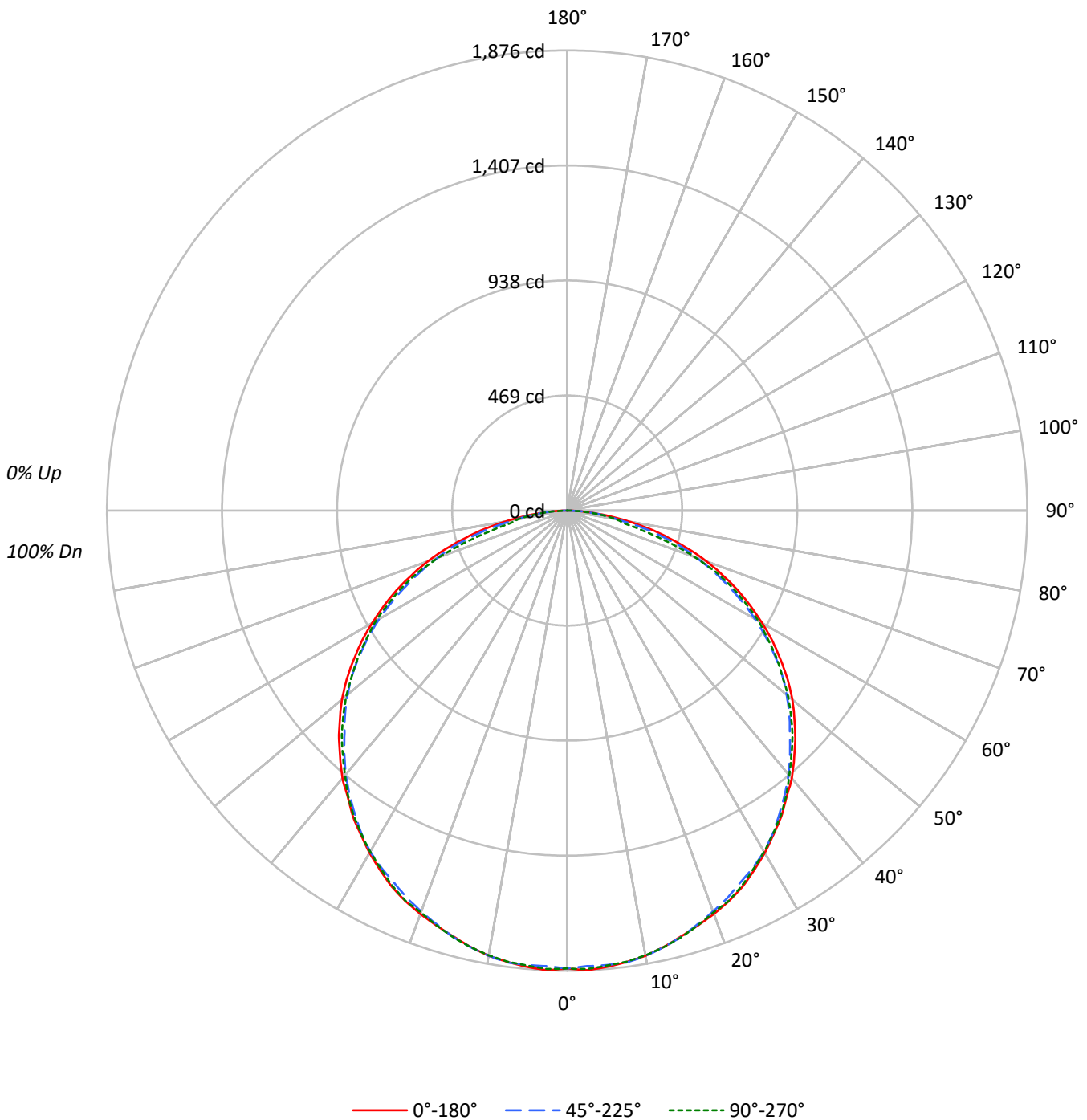
Input Watts (W): 41.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2512	2512	2512
5°	2523	2512	2515
10°	2518	2518	2515
15°	2503	2505	2507
20°	2505	2490	2497
25°	2512	2483	2505
30°	2503	2496	2496
35°	2501	2479	2493
40°	2504	2467	2475
45°	2504	2443	2473
50°	2509	2446	2460
55°	2495	2428	2441
60°	2472	2381	2428
65°	2441	2303	2367
70°	2376	2214	2179
75°	2225	2045	1700
80°	1967	1617	1580
85°	1514	1470	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	3.2
10°-20°	507.6	9.1
20°-30°	775.3	13.9
30°-40°	946.2	16.9
40°-50°	1000.5	17.9
50°-60°	930.6	16.7
60°-70°	729.8	13.1
70°-80°	409.3	7.3
80°-90°	108.7	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°	1459.7	26.1
0°-40°	2405.9	43.1
0°-60°	4337.0	77.7
0°-90°	5584.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5584.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1867	1867	1867	1867	1867	
5°	1868	1860	1860	1854	1862	177
15°	1797	1799	1799	1794	1800	508
25°	1692	1681	1673	1682	1687	779
35°	1523	1518	1509	1500	1518	952
45°	1316	1302	1284	1293	1299	1015
55°	1064	1051	1035	1031	1041	951
65°	767	746	723	731	744	757
75°	428	413	393	349	327	453
85°	98	94	95	88	87	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1866.9	1866.9	1866.9	1866.9	1866.9
2.5°	1875.6	1863.1	1859.2	1863.1	1870.8
5°	1867.9	1860.2	1860.2	1854.4	1862.1
7.5°	1856.3	1853.4	1858.3	1842.9	1855.4
10°	1842.9	1838.1	1842.9	1826.5	1840.9
12.5°	1821.7	1820.7	1822.7	1814.0	1822.7
15°	1796.7	1798.6	1798.6	1793.8	1799.6
17.5°	1773.6	1774.6	1768.8	1774.6	1772.7
20°	1749.6	1747.6	1739.0	1749.6	1743.8
22.5°	1723.6	1717.8	1708.2	1718.8	1721.7
25°	1691.9	1681.3	1672.6	1682.2	1687.1
27.5°	1652.4	1641.8	1640.9	1640.9	1645.7
30°	1611.1	1603.4	1606.3	1598.6	1606.3
32.5°	1565.9	1563.0	1561.1	1550.5	1562.0
35°	1522.6	1517.8	1509.1	1500.5	1517.8
37.5°	1469.7	1466.8	1458.1	1453.3	1466.8
40°	1425.4	1413.9	1404.3	1401.4	1409.1
42.5°	1369.6	1356.2	1344.6	1349.4	1353.3
45°	1315.8	1302.3	1284.0	1292.7	1299.4
47.5°	1257.1	1242.7	1228.3	1234.0	1237.9
50°	1198.4	1180.2	1168.6	1167.7	1175.4
52.5°	1133.0	1117.6	1106.1	1102.3	1105.1
55°	1063.8	1051.3	1034.9	1031.1	1040.7
57.5°	993.6	980.1	960.9	958.0	967.6
60°	918.5	905.1	884.9	884.9	902.2
62.5°	843.5	828.1	805.1	809.9	822.4
65°	766.6	746.4	723.3	731.0	743.5
67.5°	685.8	666.5	643.5	650.2	657.9
70°	604.0	582.9	562.7	556.9	554.0
72.5°	518.4	496.3	485.7	457.8	440.5
75°	428.0	412.6	393.4	349.1	327.0
77.5°	344.3	330.9	302.0	249.1	236.6
80°	253.9	253.0	208.7	202.9	203.9
82.5°	172.2	168.3	156.8	146.2	147.2
85°	98.1	94.3	95.2	88.5	86.6
87.5°	35.6	38.5	37.5	38.5	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)