

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: P393608

Luminaire Tested: **24EN-LD2-58-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393608  
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 (5700K)  
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: 5596.4 lumens  
Efficiency: N/A  
Efficacy: 136.5 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

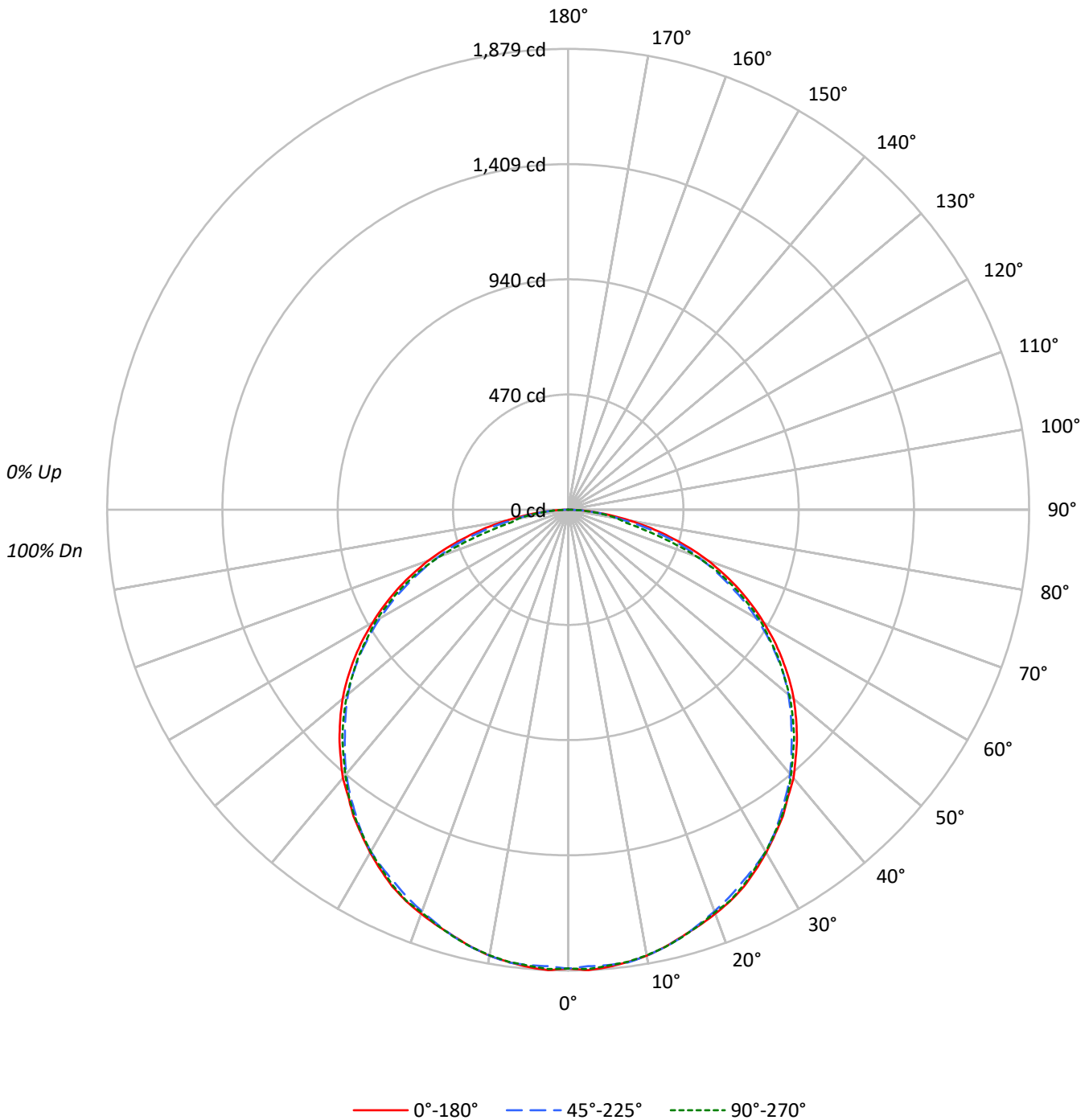
Input Watts (W): 41  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2517	2517	2517
5°	2528	2518	2520
10°	2523	2523	2520
15°	2508	2511	2512
20°	2510	2495	2502
25°	2517	2488	2510
30°	2508	2501	2501
35°	2506	2484	2498
40°	2509	2472	2480
45°	2509	2448	2478
50°	2514	2451	2465
55°	2501	2433	2446
60°	2477	2386	2433
65°	2446	2308	2372
70°	2381	2218	2184
75°	2230	2049	1704
80°	1971	1620	1583
85°	1518	1473	1338



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.3	3.2
10°-20°	508.6	9.1
20°-30°	776.9	13.9
30°-40°	948.1	16.9
40°-50°	1002.6	17.9
50°-60°	932.5	16.7
60°-70°	731.3	13.1
70°-80°	410.2	7.3
80°-90°	109.0	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°	1462.7	26.1
0°-40°	2410.9	43.1
0°-60°	4345.9	77.7
0°-90°	5596.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5596.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1871	1871	1871	1871	1871	
5°	1872	1864	1864	1858	1866	178
15°	1800	1802	1802	1798	1803	509
25°	1695	1685	1676	1686	1690	781
35°	1526	1521	1512	1504	1521	954
45°	1318	1305	1287	1295	1302	1017
55°	1066	1054	1037	1033	1043	953
65°	768	748	725	732	745	758
75°	429	414	394	350	328	454
85°	98	94	95	89	87	118
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1870.8	1870.8	1870.8	1870.8	1870.8
2.5°	1879.4	1866.9	1863.1	1866.9	1874.6
5°	1871.7	1864.0	1864.0	1858.2	1866.0
7.5°	1860.2	1857.3	1862.1	1846.7	1859.2
10°	1846.7	1841.9	1846.7	1830.3	1844.7
12.5°	1825.5	1824.5	1826.4	1817.8	1826.4
15°	1800.4	1802.3	1802.3	1797.5	1803.3
17.5°	1777.3	1778.2	1772.5	1778.2	1776.3
20°	1753.2	1751.3	1742.6	1753.2	1747.4
22.5°	1727.2	1721.4	1711.7	1722.3	1725.2
25°	1695.4	1684.8	1676.1	1685.7	1690.5
27.5°	1655.8	1645.2	1644.3	1644.3	1649.1
30°	1614.4	1606.7	1609.6	1601.9	1609.6
32.5°	1569.1	1566.2	1564.3	1553.7	1565.2
35°	1525.7	1520.9	1512.2	1503.6	1520.9
37.5°	1472.7	1469.8	1461.1	1456.3	1469.8
40°	1428.4	1416.8	1407.2	1404.3	1412.0
42.5°	1372.5	1359.0	1347.4	1352.2	1356.1
45°	1318.5	1305.0	1286.7	1295.4	1302.1
47.5°	1259.7	1245.3	1230.8	1236.6	1240.4
50°	1200.9	1182.6	1171.0	1170.1	1177.8
52.5°	1135.4	1120.0	1108.4	1104.5	1107.4
55°	1066.0	1053.5	1037.1	1033.2	1042.9
57.5°	995.6	982.1	962.9	960.0	969.6
60°	920.4	907.0	886.7	886.7	904.1
62.5°	845.3	829.8	806.7	811.5	824.1
65°	768.2	747.9	724.8	732.5	745.0
67.5°	687.2	667.9	644.8	651.5	659.3
70°	605.3	584.1	563.8	558.1	555.2
72.5°	519.5	497.3	486.7	458.8	441.4
75°	428.9	413.5	394.2	349.9	327.7
77.5°	345.0	331.6	302.6	249.6	237.1
80°	254.4	253.5	209.1	203.4	204.3
82.5°	172.5	168.7	157.1	146.5	147.5
85°	98.3	94.5	95.4	88.7	86.7
87.5°	35.7	38.6	37.6	38.6	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)