

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: P393631

Luminaire Tested: **24EN-LD2-58-UNV-L93050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393631  
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-L93050-W2A-1-U (5000K)  
Description: 2X4 ENCOUNTER, 5800 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5122.2 lumens  
Efficiency: N/A  
Efficacy: 125.5 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

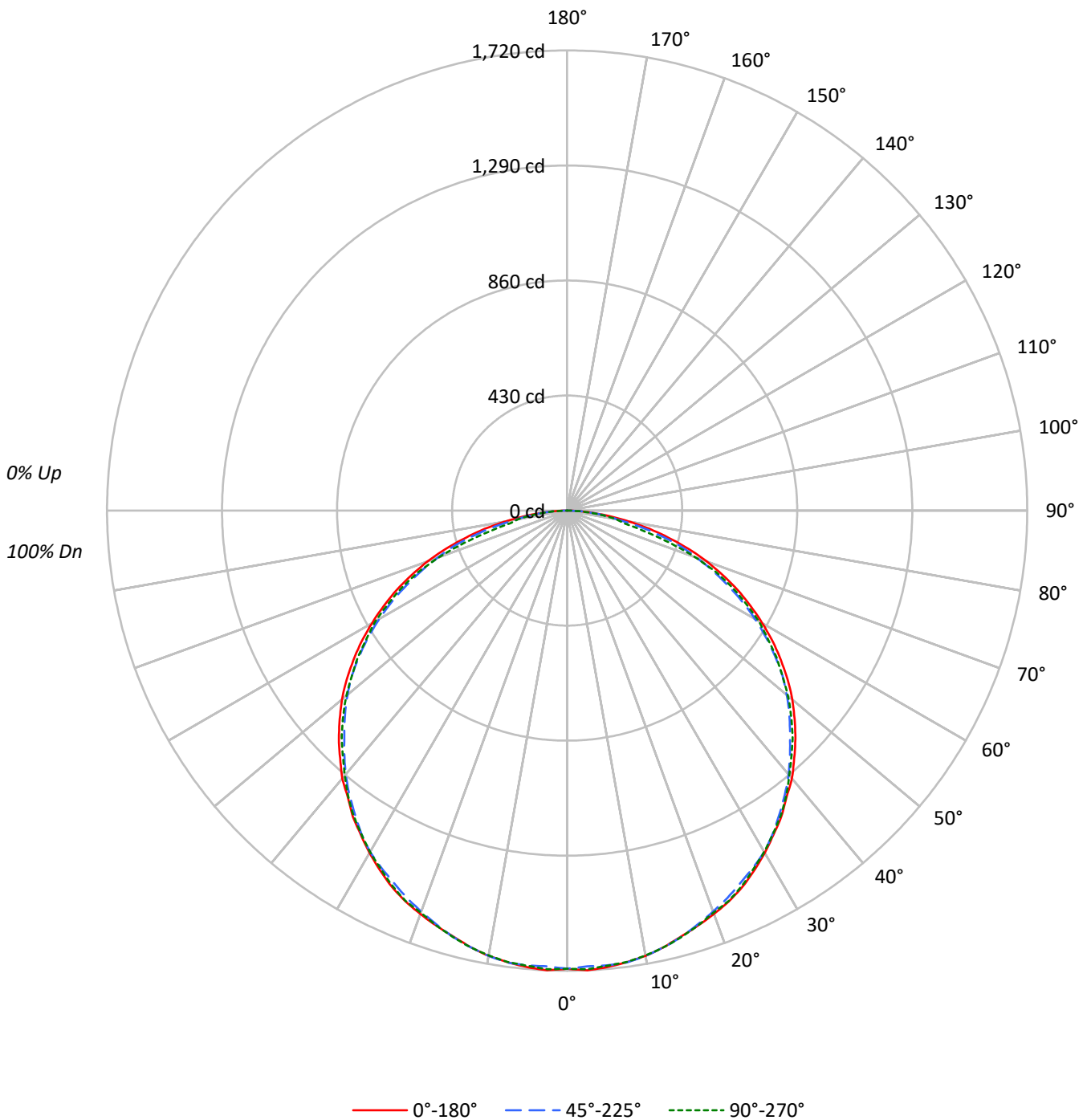
Input Watts (W): 40.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2304	2304	2304
5°	2314	2304	2307
10°	2309	2309	2307
15°	2295	2298	2299
20°	2298	2284	2290
25°	2304	2277	2297
30°	2296	2289	2289
35°	2294	2273	2286
40°	2296	2262	2270
45°	2296	2241	2268
50°	2301	2244	2256
55°	2289	2227	2239
60°	2267	2184	2227
65°	2238	2112	2171
70°	2179	2030	1999
75°	2041	1876	1559
80°	1805	1483	1449
85°	1389	1348	1226



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.2	3.2
10°-20°	465.5	9.1
20°-30°	711.0	13.9
30°-40°	867.8	16.9
40°-50°	917.6	17.9
50°-60°	853.5	16.7
60°-70°	669.4	13.1
70°-80°	375.4	7.3
80°-90°	99.7	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°	1338.8	26.1
0°-40°	2206.6	43.1
0°-60°	3977.7	77.7
0°-90°	5122.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5122.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1712	1712	1712	1712	1712	
5°	1713	1706	1706	1701	1708	163
15°	1648	1650	1650	1645	1650	466
25°	1552	1542	1534	1543	1547	714
35°	1396	1392	1384	1376	1392	873
45°	1207	1194	1178	1186	1192	931
55°	976	964	949	946	954	872
65°	703	684	663	670	682	694
75°	393	378	361	320	300	416
85°	90	86	87	81	79	108
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1712.3	1712.3	1712.3	1712.3	1712.3
2.5°	1720.2	1708.7	1705.2	1708.7	1715.8
5°	1713.1	1706.1	1706.1	1700.8	1707.8
7.5°	1702.5	1699.9	1704.3	1690.2	1701.7
10°	1690.2	1685.8	1690.2	1675.2	1688.4
12.5°	1670.8	1669.9	1671.7	1663.7	1671.7
15°	1647.9	1649.6	1649.6	1645.2	1650.5
17.5°	1626.7	1627.6	1622.3	1627.6	1625.8
20°	1604.6	1602.9	1594.9	1604.6	1599.3
22.5°	1580.8	1575.5	1566.7	1576.4	1579.0
25°	1551.7	1542.0	1534.1	1542.9	1547.3
27.5°	1515.5	1505.8	1504.9	1504.9	1509.4
30°	1477.6	1470.5	1473.2	1466.1	1473.2
32.5°	1436.1	1433.5	1431.7	1422.0	1432.6
35°	1396.4	1392.0	1384.1	1376.2	1392.0
37.5°	1347.9	1345.3	1337.3	1332.9	1345.3
40°	1307.3	1296.8	1287.9	1285.3	1292.3
42.5°	1256.2	1243.8	1233.2	1237.7	1241.2
45°	1206.8	1194.4	1177.7	1185.6	1191.8
47.5°	1153.0	1139.7	1126.5	1131.8	1135.3
50°	1099.2	1082.4	1071.8	1070.9	1078.0
52.5°	1039.2	1025.1	1014.5	1010.9	1013.6
55°	975.7	964.2	949.2	945.7	954.5
57.5°	911.3	898.9	881.3	878.6	887.4
60°	842.5	830.1	811.6	811.6	827.5
62.5°	773.6	759.5	738.4	742.8	754.2
65°	703.1	684.5	663.4	670.4	681.9
67.5°	629.0	611.3	590.2	596.3	603.4
70°	554.0	534.6	516.1	510.8	508.1
72.5°	475.5	455.2	445.5	419.9	404.0
75°	392.6	378.4	360.8	320.2	299.9
77.5°	315.8	303.5	277.0	228.5	217.0
80°	232.9	232.0	191.4	186.1	187.0
82.5°	157.9	154.4	143.8	134.1	135.0
85°	90.0	86.5	87.3	81.2	79.4
87.5°	32.6	35.3	34.4	35.3	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)