

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: P393451

Luminaire Tested: **24EN-LD2-34-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-32)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-34-UNV-L83050-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3405.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

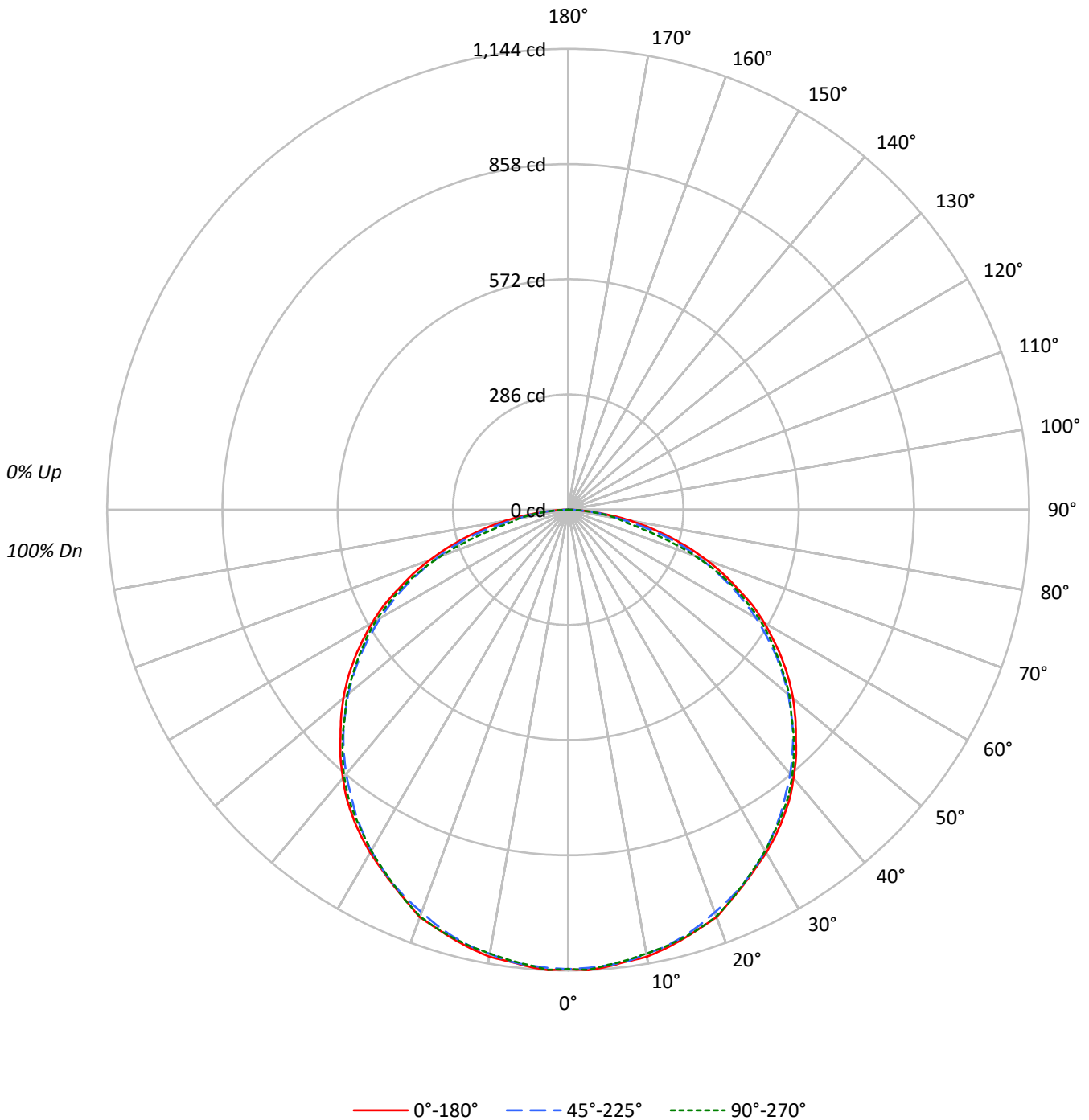
Input Watts (W): 24.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	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°	1534	1534	1534
5°	1538	1534	1532
10°	1539	1530	1528
15°	1536	1530	1534
20°	1541	1523	1539
25°	1526	1524	1524
30°	1527	1519	1519
35°	1531	1511	1519
40°	1528	1505	1519
45°	1520	1502	1505
50°	1524	1491	1499
55°	1521	1475	1487
60°	1512	1448	1483
65°	1479	1410	1444
70°	1440	1351	1320
75°	1351	1248	1038
80°	1212	976	961
85°	957	881	804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	3.2
10°-20°	310.2	9.1
20°-30°	473.2	13.9
30°-40°	577.4	17.0
40°-50°	610.9	17.9
50°-60°	566.2	16.6
60°-70°	444.7	13.1
70°-80°	248.1	7.3
80°-90°	66.3	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°	891.4	26.2
0°-40°	1468.8	43.1
0°-60°	2646.0	77.7
0°-90°	3405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1138	1137	1136	1134	1134	108
15°	1103	1100	1098	1095	1101	312
25°	1028	1026	1026	1024	1026	475
35°	932	925	920	918	925	583
45°	799	796	789	789	791	618
55°	648	638	629	628	634	579
65°	464	456	443	446	454	461
75°	260	250	240	210	200	275
85°	62	57	57	53	52	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.4	1140.4	1140.4	1140.4	1140.4
2.5°	1144.3	1140.4	1138.4	1140.4	1143.3
5°	1138.4	1137.4	1135.5	1134.5	1134.5
7.5°	1130.6	1132.5	1130.6	1127.6	1127.6
10°	1126.6	1124.7	1119.7	1118.7	1118.7
12.5°	1115.8	1112.8	1110.9	1106.9	1110.9
15°	1103.0	1100.1	1098.1	1095.1	1101.0
17.5°	1089.2	1082.3	1082.3	1082.3	1089.2
20°	1076.4	1066.6	1063.6	1065.6	1074.5
22.5°	1050.9	1046.9	1045.9	1047.9	1051.8
25°	1028.2	1026.3	1026.3	1024.3	1026.3
27.5°	1004.6	1004.6	1002.6	1000.7	1001.7
30°	983.0	980.0	978.0	976.1	978.0
32.5°	958.4	953.4	949.5	948.5	950.5
35°	931.8	924.9	920.0	918.0	924.9
37.5°	903.3	893.4	887.5	887.5	897.4
40°	869.8	859.0	857.0	856.0	864.9
42.5°	836.4	828.5	823.6	824.5	828.5
45°	799.0	796.0	789.1	789.1	791.1
47.5°	764.5	760.6	750.8	752.7	750.8
50°	728.1	721.2	712.4	709.4	716.3
52.5°	689.7	681.9	671.1	669.1	675.0
55°	648.4	637.6	628.7	627.8	633.7
57.5°	605.1	594.3	583.5	583.5	593.3
60°	561.8	551.0	538.2	538.2	551.0
62.5°	516.6	504.8	491.0	493.9	501.8
65°	464.4	455.6	442.8	445.7	453.6
67.5°	416.2	406.4	392.6	396.5	396.5
70°	366.0	353.2	343.4	337.5	335.5
72.5°	312.9	302.1	295.2	273.5	267.6
75°	259.8	249.9	240.1	209.6	199.7
77.5°	208.6	201.7	182.0	149.6	145.6
80°	156.4	153.5	125.9	124.0	124.0
82.5°	106.3	104.3	94.5	89.5	88.6
85°	62.0	57.1	57.1	53.1	52.1
87.5°	21.6	22.6	24.6	23.6	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)