

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: P393495

Luminaire Tested: **24EN-LD2-40-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-33)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-40-UNV-L92765-W2A-1-U (5000K)
Description: 2X4 ENCOUNTER, 4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3414.3 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

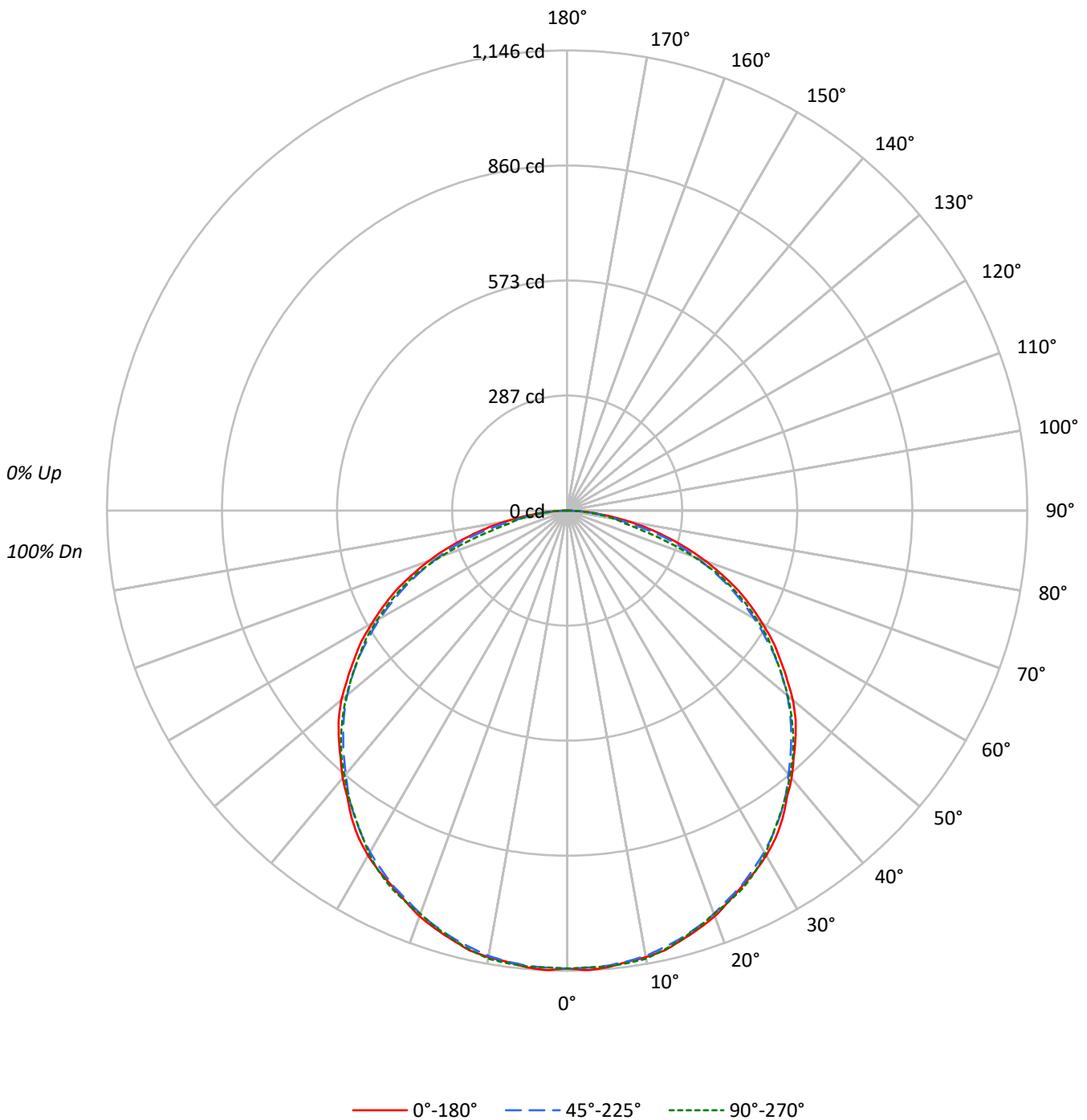
Input Watts (W): 28
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	80	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	42	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	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1534	1534	1534
5°	1543	1537	1539
10°	1543	1539	1548
15°	1542	1535	1538
20°	1540	1530	1530
25°	1532	1528	1539
30°	1541	1526	1533
35°	1537	1520	1517
40°	1528	1506	1515
45°	1530	1501	1516
50°	1537	1498	1501
55°	1521	1481	1483
60°	1511	1449	1472
65°	1497	1409	1441
70°	1443	1350	1313
75°	1350	1258	1025
80°	1202	973	960
85°	949	898	807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.2
10°-20°	311.2	9.1
20°-30°	475.2	13.9
30°-40°	579.8	17.0
40°-50°	612.2	17.9
50°-60°	567.6	16.6
60°-70°	444.7	13.0
70°-80°	248.8	7.3
80°-90°	66.4	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°	894.8	26.2
0°-40°	1474.6	43.2
0°-60°	2654.4	77.7
0°-90°	3414.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3414.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1142	1142	1138	1139	1140	108
15°	1107	1102	1102	1099	1104	313
25°	1032	1032	1029	1028	1037	477
35°	936	927	926	925	924	585
45°	804	796	789	787	796	621
55°	648	640	631	631	632	580
65°	470	456	442	445	453	462
75°	260	252	242	210	197	275
85°	62	59	58	55	52	72
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°	1145.5	1143.0	1139.6	1140.4	1138.8
5°	1142.1	1142.1	1137.9	1138.8	1139.6
7.5°	1133.7	1134.5	1132.9	1129.5	1137.1
10°	1129.5	1123.6	1126.1	1119.4	1132.9
12.5°	1121.9	1112.6	1114.3	1109.3	1120.2
15°	1106.7	1101.7	1101.7	1099.1	1104.2
17.5°	1091.6	1088.2	1086.5	1088.2	1088.2
20°	1075.5	1073.0	1068.8	1072.2	1068.8
22.5°	1052.8	1054.5	1047.7	1055.3	1053.6
25°	1031.7	1031.7	1029.2	1027.5	1036.8
27.5°	1013.2	1007.3	1005.6	1002.2	1014.0
30°	992.1	981.1	982.0	976.9	987.0
32.5°	966.8	954.2	955.0	949.9	954.2
35°	935.6	927.2	925.5	924.7	923.8
37.5°	899.4	898.5	894.3	896.8	895.2
40°	869.9	868.2	857.2	859.8	862.3
42.5°	835.3	832.8	823.5	825.2	831.9
45°	804.1	796.5	789.0	787.3	796.5
47.5°	772.1	760.3	753.6	748.5	757.8
50°	734.2	724.1	715.6	710.6	717.3
52.5°	690.3	681.9	673.5	671.8	674.3
55°	648.2	639.8	631.3	631.3	632.2
57.5°	607.7	596.8	584.1	586.7	593.4
60°	561.4	551.3	538.6	538.6	547.0
62.5°	515.9	503.2	490.6	492.3	500.7
65°	470.3	456.0	442.5	445.1	452.6
67.5°	418.1	405.4	392.8	396.2	400.4
70°	366.7	354.0	343.1	339.7	333.8
72.5°	314.4	304.3	295.0	276.5	267.2
75°	259.6	252.0	241.9	209.9	197.2
77.5°	209.0	203.1	180.4	150.9	146.7
80°	155.1	155.1	125.6	123.1	123.9
82.5°	105.4	103.7	95.2	89.3	86.8
85°	61.5	59.0	58.2	54.8	52.3
87.5°	20.2	23.6	23.6	22.8	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)