

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: P393496

Luminaire Tested: **24EN-LD2-40-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393496
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 (5700K)
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: 3466.8 lumens
Efficiency: N/A
Efficacy: 123.8 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

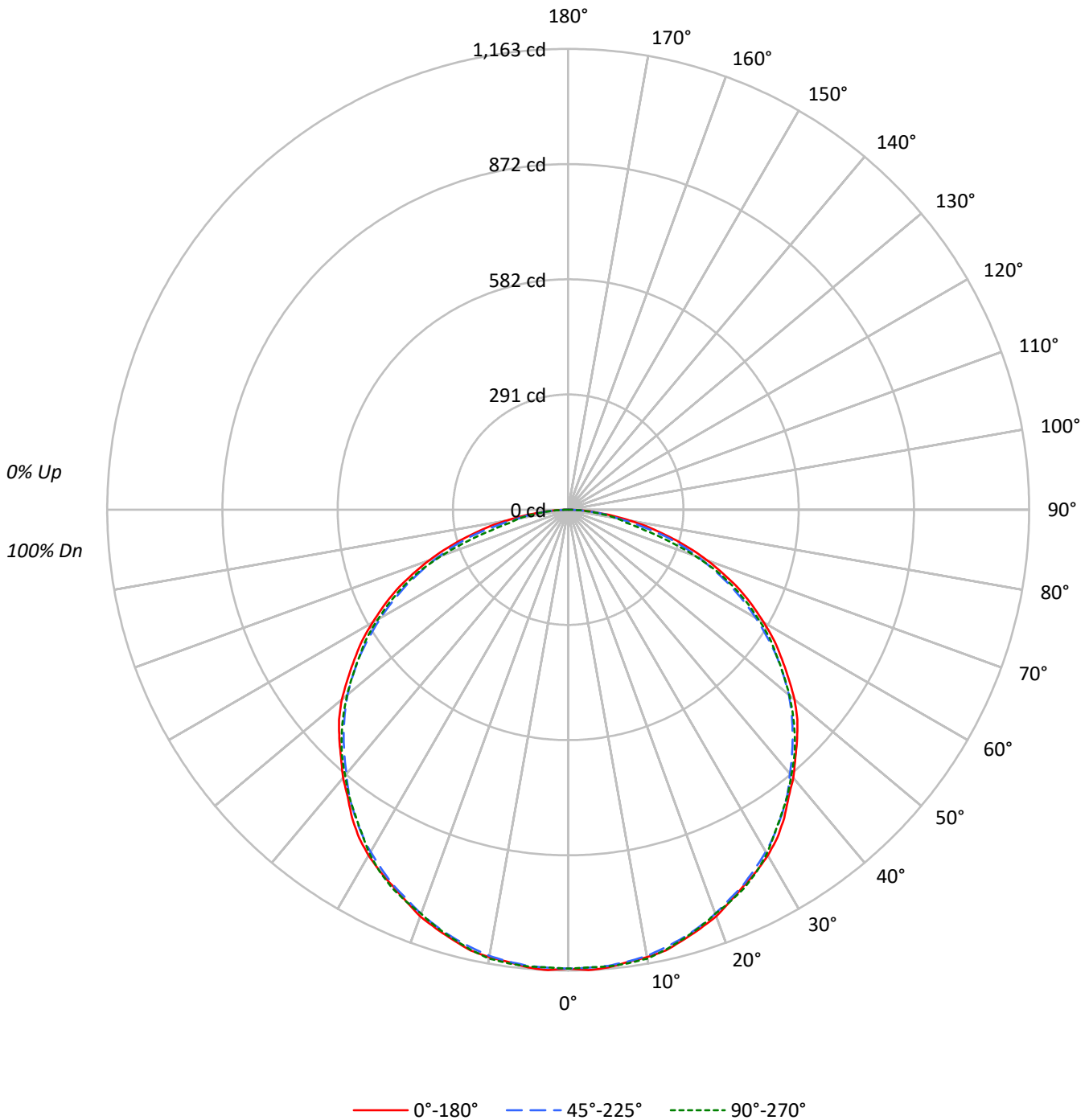
Input Watts (W): 28
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1558	1558	1558
5°	1566	1561	1563
10°	1567	1562	1572
15°	1565	1558	1562
20°	1564	1554	1554
25°	1555	1551	1563
30°	1565	1549	1557
35°	1560	1543	1541
40°	1551	1529	1538
45°	1554	1524	1539
50°	1560	1521	1524
55°	1544	1504	1506
60°	1534	1472	1495
65°	1521	1430	1463
70°	1465	1370	1333
75°	1370	1277	1041
80°	1220	988	975
85°	965	912	820



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	3.2
10°-20°	316.0	9.1
20°-30°	482.6	13.9
30°-40°	588.7	17.0
40°-50°	621.6	17.9
50°-60°	576.4	16.6
60°-70°	451.5	13.0
70°-80°	252.7	7.3
80°-90°	67.4	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°	908.5	26.2
0°-40°	1497.2	43.2
0°-60°	2695.2	77.7
0°-90°	3466.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3466.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1160	1160	1155	1156	1157	110
15°	1124	1119	1119	1116	1121	317
25°	1048	1048	1045	1043	1053	484
35°	950	942	940	939	938	594
45°	816	809	801	799	809	630
55°	658	650	641	641	642	589
65°	478	463	449	452	460	470
75°	264	256	246	213	200	280
85°	62	60	59	56	53	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.0	1158.0	1158.0	1158.0	1158.0
2.5°	1163.1	1160.6	1157.1	1158.0	1156.3
5°	1159.7	1159.7	1155.4	1156.3	1157.1
7.5°	1151.1	1152.0	1150.3	1146.9	1154.6
10°	1146.9	1140.9	1143.4	1136.6	1150.3
12.5°	1139.2	1129.7	1131.5	1126.3	1137.4
15°	1123.8	1118.6	1118.6	1116.1	1121.2
17.5°	1108.3	1104.9	1103.2	1104.9	1104.9
20°	1092.1	1089.5	1085.2	1088.7	1085.2
22.5°	1069.0	1070.7	1063.8	1071.5	1069.8
25°	1047.6	1047.6	1045.0	1043.3	1052.7
27.5°	1028.8	1022.8	1021.1	1017.6	1029.6
30°	1007.4	996.2	997.1	992.0	1002.2
32.5°	981.7	968.8	969.7	964.6	968.8
35°	950.0	941.5	939.7	938.9	938.0
37.5°	913.2	912.4	908.1	910.6	908.9
40°	883.3	881.5	870.4	873.0	875.6
42.5°	848.2	845.6	836.2	837.9	844.7
45°	816.5	808.8	801.1	799.4	808.8
47.5°	784.0	772.0	765.1	760.0	769.4
50°	745.5	735.2	726.6	721.5	728.3
52.5°	701.0	692.4	683.8	682.1	684.7
55°	658.2	649.6	641.0	641.0	641.9
57.5°	617.1	606.0	593.1	595.7	602.5
60°	570.0	559.7	546.9	546.9	555.5
62.5°	523.8	511.0	498.1	499.8	508.4
65°	477.6	463.0	449.3	451.9	459.6
67.5°	424.5	411.7	398.8	402.3	406.5
70°	372.3	359.5	348.3	344.9	338.9
72.5°	319.2	309.0	299.6	280.7	271.3
75°	263.6	255.9	245.6	213.1	200.3
77.5°	212.3	206.3	183.2	153.2	148.9
80°	157.5	157.5	127.5	125.0	125.8
82.5°	107.0	105.3	96.7	90.7	88.2
85°	62.5	59.9	59.1	55.6	53.1
87.5°	20.5	24.0	24.0	23.1	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)