

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: P393446

Luminaire Tested: **24EN-LD2-34-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393446
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-L82765-W2A-1-U (4500K)
Description: 2X4 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3328.5 lumens
Efficiency: N/A
Efficacy: 141.0 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

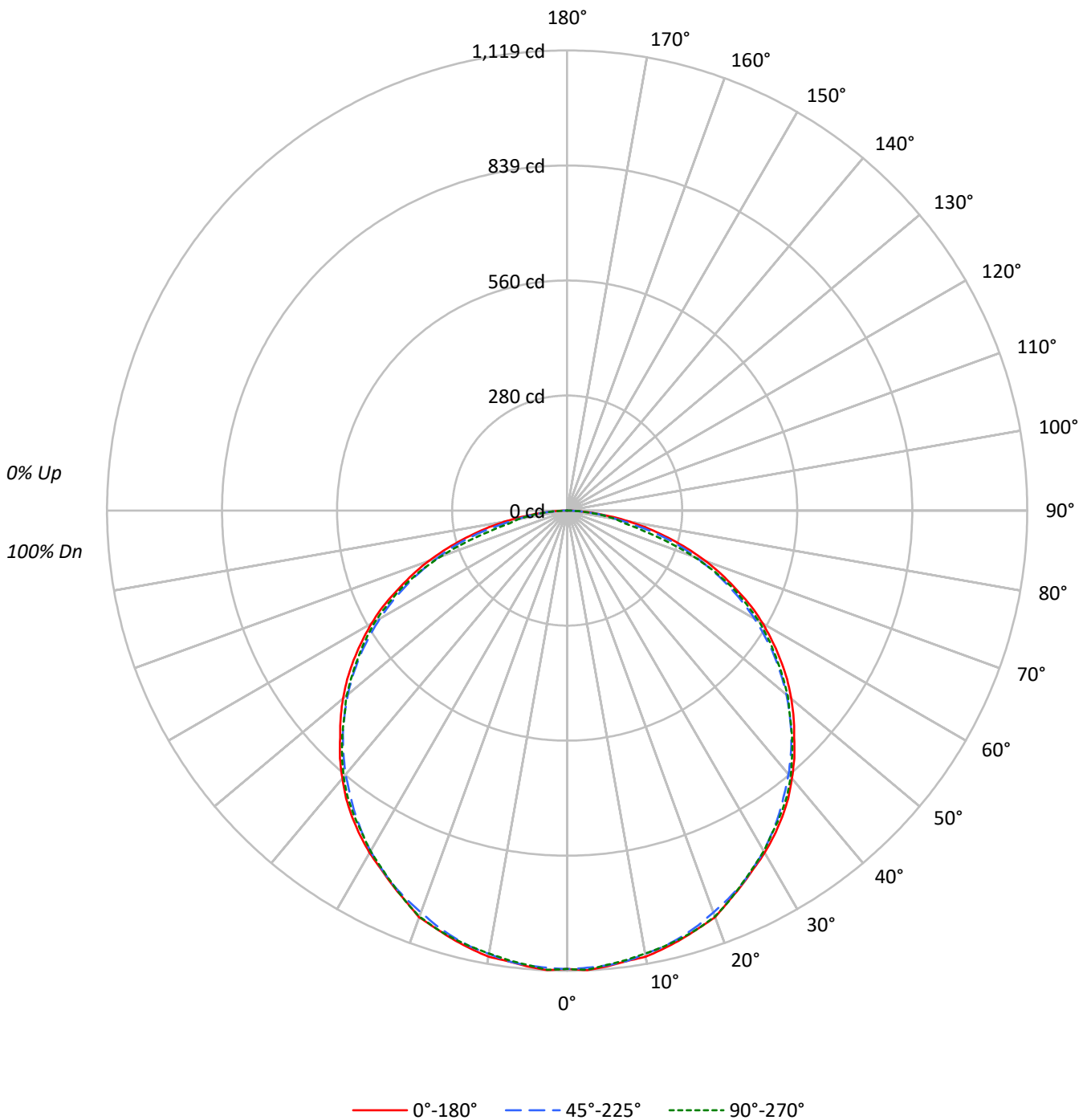
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1500	1500	1500
5°	1503	1499	1498
10°	1505	1495	1494
15°	1502	1495	1499
20°	1507	1489	1504
25°	1492	1489	1489
30°	1493	1485	1485
35°	1496	1477	1485
40°	1493	1472	1485
45°	1486	1468	1471
50°	1490	1458	1466
55°	1487	1442	1453
60°	1478	1416	1449
65°	1445	1378	1412
70°	1408	1321	1290
75°	1320	1220	1015
80°	1185	954	939
85°	936	861	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	3.2
10°-20°	303.2	9.1
20°-30°	462.6	13.9
30°-40°	564.4	17.0
40°-50°	597.2	17.9
50°-60°	553.5	16.6
60°-70°	434.7	13.1
70°-80°	242.5	7.3
80°-90°	64.8	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°	871.4	26.2
0°-40°	1435.8	43.1
0°-60°	2586.5	77.7
0°-90°	3328.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3328.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1113	1112	1110	1109	1109	106
15°	1078	1075	1073	1070	1076	305
25°	1005	1003	1003	1001	1003	464
35°	911	904	899	897	904	570
45°	781	778	771	771	773	604
55°	634	623	615	614	619	566
65°	454	445	433	436	443	450
75°	254	244	235	205	195	269
85°	61	56	56	52	51	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.8	1114.8	1114.8	1114.8	1114.8
2.5°	1118.6	1114.8	1112.8	1114.8	1117.6
5°	1112.8	1111.9	1110.0	1109.0	1109.0
7.5°	1105.1	1107.1	1105.1	1102.3	1102.3
10°	1101.3	1099.4	1094.6	1093.6	1093.6
12.5°	1090.7	1087.8	1085.9	1082.1	1085.9
15°	1078.2	1075.3	1073.4	1070.5	1076.3
17.5°	1064.7	1058.0	1058.0	1058.0	1064.7
20°	1052.2	1042.6	1039.7	1041.7	1050.3
22.5°	1027.2	1023.4	1022.4	1024.3	1028.2
25°	1005.1	1003.2	1003.2	1001.3	1003.2
27.5°	982.0	982.0	980.1	978.2	979.1
30°	960.9	958.0	956.1	954.1	956.1
32.5°	936.8	932.0	928.2	927.2	929.1
35°	910.9	904.1	899.3	897.4	904.1
37.5°	883.0	873.3	867.6	867.6	877.2
40°	850.3	839.7	837.8	836.8	845.4
42.5°	817.6	809.9	805.1	806.0	809.9
45°	781.0	778.1	771.4	771.4	773.3
47.5°	747.3	743.5	733.9	735.8	733.9
50°	711.8	705.0	696.4	693.5	700.2
52.5°	674.2	666.5	656.0	654.0	659.8
55°	633.8	623.3	614.6	613.6	619.4
57.5°	591.5	580.9	570.4	570.4	580.0
60°	549.2	538.6	526.1	526.1	538.6
62.5°	505.0	493.4	480.0	482.8	490.5
65°	454.0	445.3	432.8	435.7	443.4
67.5°	406.9	397.2	383.8	387.6	387.6
70°	357.8	345.3	335.7	329.9	328.0
72.5°	305.9	295.3	288.5	267.4	261.6
75°	253.9	244.3	234.7	204.9	195.3
77.5°	203.9	197.2	177.9	146.2	142.4
80°	152.9	150.0	123.1	121.2	121.2
82.5°	103.9	102.0	92.3	87.5	86.6
85°	60.6	55.8	55.8	51.9	51.0
87.5°	21.2	22.1	24.0	23.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)