

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: P393191

Luminaire Tested: **14EN-LD2-51-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-56)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-51-UNV-L82765-W2A-1-U (5000K)
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4879.9 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

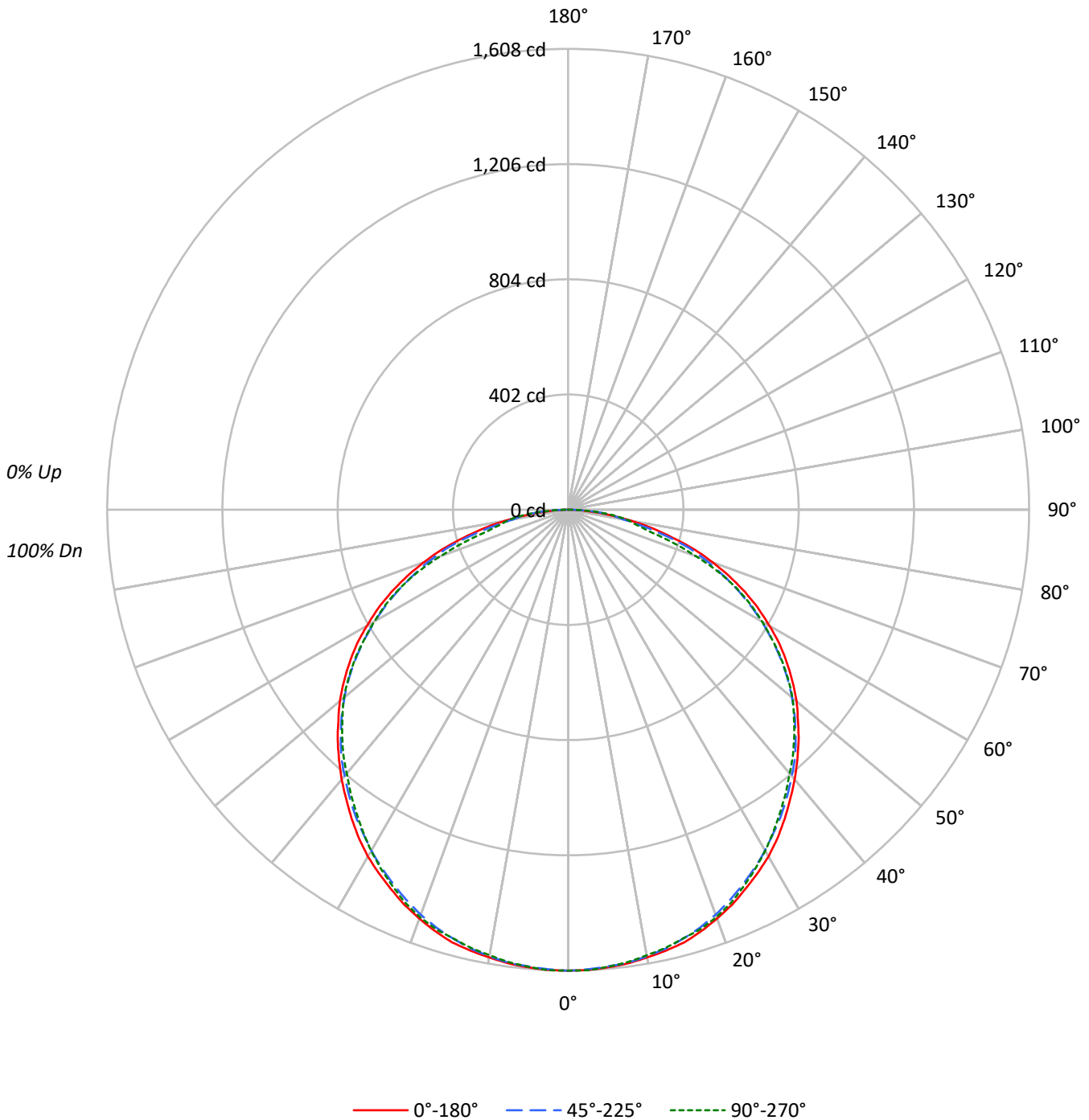
Input Watts (W): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4328	4328	4328
5°	4329	4321	4324
10°	4335	4324	4314
15°	4355	4318	4315
20°	4348	4306	4331
25°	4339	4282	4303
30°	4341	4267	4270
35°	4325	4262	4233
40°	4318	4260	4220
45°	4327	4268	4243
50°	4354	4265	4277
55°	4370	4239	4258
60°	4362	4191	4202
65°	4335	4103	4127
70°	4216	3989	3733
75°	3924	3674	3055
80°	3467	3036	3318
85°	2492	3260	3322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	3.1
10°-20°	438.5	9.0
20°-30°	667.1	13.7
30°-40°	814.9	16.7
40°-50°	868.0	17.8
50°-60°	814.1	16.7
60°-70°	646.1	13.2
70°-80°	367.8	7.5
80°-90°	110.8	2.3
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°	1258.2	25.8
0°-40°	2073.2	42.5
0°-60°	3755.3	77.0
0°-90°	4879.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4879.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1603	1608	1600	1610	1601	153
15°	1563	1557	1550	1552	1549	441
25°	1462	1448	1442	1439	1449	674
35°	1316	1310	1297	1295	1289	824
45°	1137	1135	1122	1114	1115	877
55°	932	923	904	900	908	832
65°	681	667	644	649	648	671
75°	377	368	353	313	294	401
85°	81	90	106	105	108	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1608.5	1608.5	1608.5	1608.5	1608.5
2.5°	1607.5	1614.2	1604.6	1612.3	1608.5
5°	1602.7	1607.5	1599.8	1610.4	1600.8
7.5°	1596.9	1599.8	1594.1	1603.7	1592.1
10°	1586.4	1588.3	1582.5	1590.2	1578.7
12.5°	1575.8	1572.9	1569.1	1572.0	1566.2
15°	1563.3	1556.6	1549.9	1551.8	1548.9
17.5°	1542.2	1533.6	1528.8	1526.8	1534.5
20°	1518.2	1507.6	1503.8	1501.9	1512.4
22.5°	1492.3	1478.8	1474.0	1472.1	1484.6
25°	1461.5	1448.1	1442.3	1439.4	1449.1
27.5°	1429.8	1415.4	1408.7	1406.8	1413.5
30°	1397.2	1380.9	1373.2	1372.2	1374.2
32.5°	1358.8	1346.3	1334.8	1335.7	1331.9
35°	1316.5	1309.8	1297.3	1295.4	1288.7
37.5°	1272.4	1272.4	1256.0	1258.9	1246.4
40°	1229.1	1230.1	1212.8	1213.8	1201.3
42.5°	1183.1	1185.9	1171.5	1163.9	1161.0
45°	1137.0	1135.0	1121.6	1113.9	1114.9
47.5°	1087.0	1087.0	1071.7	1064.9	1067.8
50°	1040.0	1036.1	1018.8	1013.1	1021.7
52.5°	986.2	981.4	964.1	957.4	966.0
55°	931.5	922.8	903.6	899.8	907.5
57.5°	874.8	863.3	842.2	840.2	844.1
60°	810.5	800.9	778.8	774.9	780.7
62.5°	748.1	734.6	712.5	712.5	718.3
65°	680.8	667.4	644.3	649.1	648.2
67.5°	609.8	596.3	576.2	578.1	567.5
70°	535.8	520.5	507.0	488.8	474.4
72.5°	460.9	444.6	439.8	397.6	383.1
75°	377.4	367.8	353.4	313.0	293.8
77.5°	303.4	293.8	267.9	237.2	242.0
80°	223.7	225.7	195.9	207.4	214.1
82.5°	146.9	151.7	158.4	167.1	169.0
85°	80.7	90.3	105.6	104.7	107.6
87.5°	31.7	42.3	46.1	48.0	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)