

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: P393192

Luminaire Tested: **14EN-LD2-51-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393192
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 (5700K)
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4898.0 lumens
Efficiency: N/A
Efficacy: 97.2 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

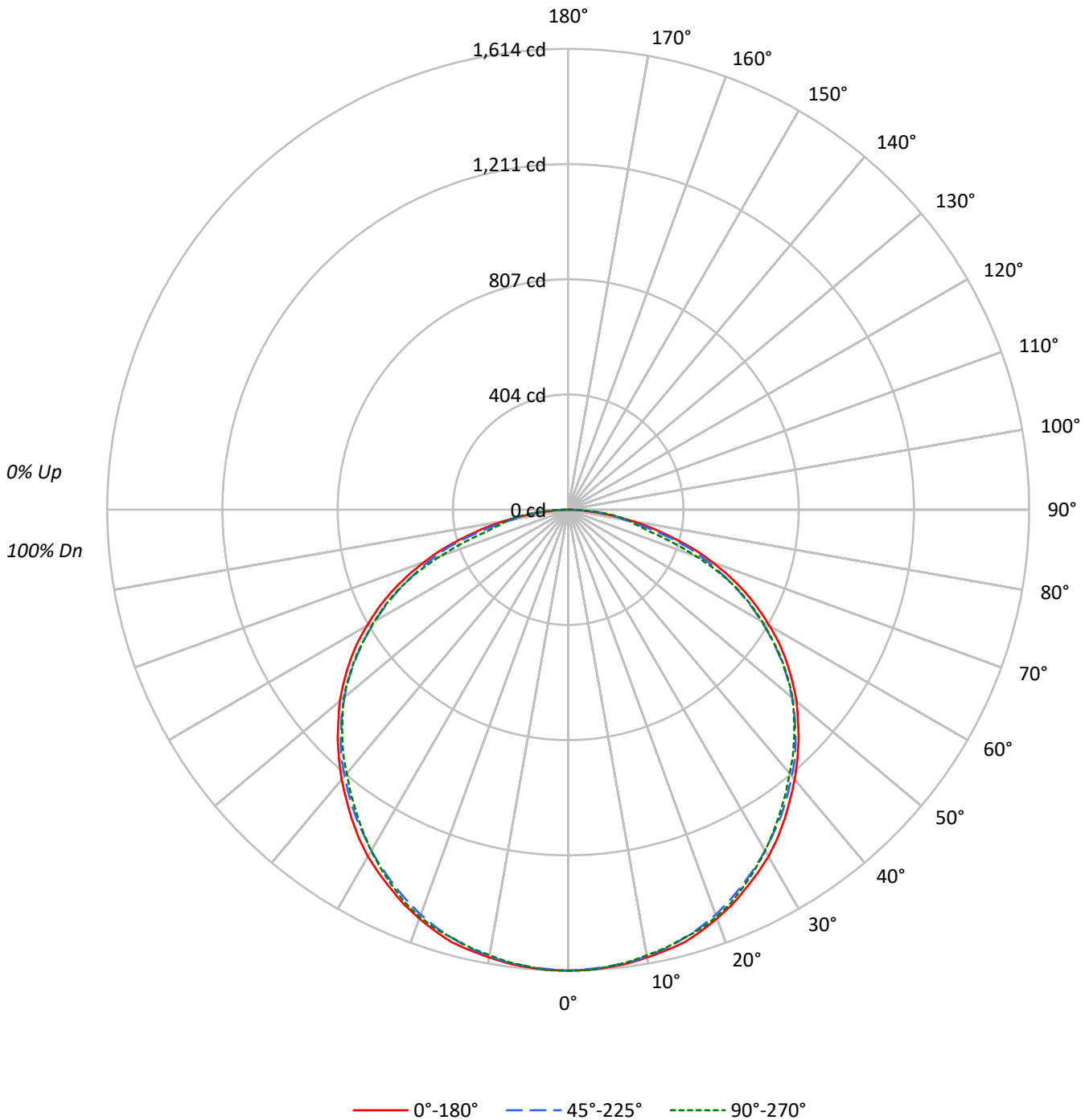
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4344	4344	4344
5°	4345	4337	4340
10°	4351	4340	4330
15°	4371	4334	4331
20°	4364	4322	4347
25°	4355	4298	4318
30°	4358	4283	4286
35°	4341	4278	4249
40°	4334	4276	4235
45°	4343	4284	4258
50°	4370	4281	4293
55°	4386	4255	4273
60°	4378	4207	4217
65°	4351	4118	4143
70°	4231	4004	3746
75°	3938	3688	3066
80°	3481	3047	3330
85°	2501	3273	3331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	3.1
10°-20°	440.1	9.0
20°-30°	669.6	13.7
30°-40°	818.0	16.7
40°-50°	871.2	17.8
50°-60°	817.1	16.7
60°-70°	648.5	13.2
70°-80°	369.1	7.5
80°-90°	111.2	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°	1262.9	25.8
0°-40°	2080.8	42.5
0°-60°	3769.1	77.0
0°-90°	4898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1609	1613	1606	1616	1607	153
15°	1569	1562	1556	1558	1555	442
25°	1467	1453	1448	1445	1454	677
35°	1321	1315	1302	1300	1293	827
45°	1141	1139	1126	1118	1119	881
55°	935	926	907	903	911	835
65°	683	670	647	652	651	674
75°	379	369	355	314	295	403
85°	81	91	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°	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1613.4	1620.2	1610.5	1618.2	1614.4
5°	1608.6	1613.4	1605.7	1616.3	1606.7
7.5°	1602.8	1605.7	1599.9	1609.6	1598.0
10°	1592.2	1594.2	1588.4	1596.1	1584.5
12.5°	1581.6	1578.7	1574.9	1577.8	1572.0
15°	1569.1	1562.3	1555.6	1557.5	1554.6
17.5°	1547.9	1539.2	1534.4	1532.5	1540.2
20°	1523.8	1513.2	1509.3	1507.4	1518.0
22.5°	1497.8	1484.3	1479.5	1477.5	1490.1
25°	1466.9	1453.4	1447.7	1444.8	1454.4
27.5°	1435.1	1420.7	1413.9	1412.0	1418.7
30°	1402.4	1386.0	1378.3	1377.3	1379.2
32.5°	1363.8	1351.3	1339.7	1340.7	1336.8
35°	1321.4	1314.6	1302.1	1300.2	1293.4
37.5°	1277.1	1277.1	1260.7	1263.6	1251.0
40°	1233.7	1234.6	1217.3	1218.3	1205.7
42.5°	1187.4	1190.3	1175.9	1168.1	1165.3
45°	1141.2	1139.2	1125.7	1118.0	1119.0
47.5°	1091.0	1091.0	1075.6	1068.9	1071.8
50°	1043.8	1040.0	1022.6	1016.8	1025.5
52.5°	989.8	985.0	967.7	960.9	969.6
55°	934.9	926.2	907.0	903.1	910.8
57.5°	878.0	866.5	845.3	843.3	847.2
60°	813.5	803.8	781.7	777.8	783.6
62.5°	750.8	737.3	715.2	715.2	720.9
65°	683.3	669.9	646.7	651.5	650.6
67.5°	612.0	598.5	578.3	580.2	569.6
70°	537.8	522.4	508.9	490.6	476.1
72.5°	462.6	446.2	441.4	399.0	384.6
75°	378.8	369.1	354.7	314.2	294.9
77.5°	304.6	294.9	268.9	238.1	242.9
80°	224.6	226.5	196.6	208.2	214.9
82.5°	147.5	152.3	159.0	167.7	169.6
85°	81.0	90.6	106.0	105.1	107.9
87.5°	31.8	42.4	46.3	48.2	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)