

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: P393194

Luminaire Tested: **14EN-LD2-51-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393194
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-L83050-W2A-1-U (2700K)
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4903.1 lumens
Efficiency: N/A
Efficacy: 97.3 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

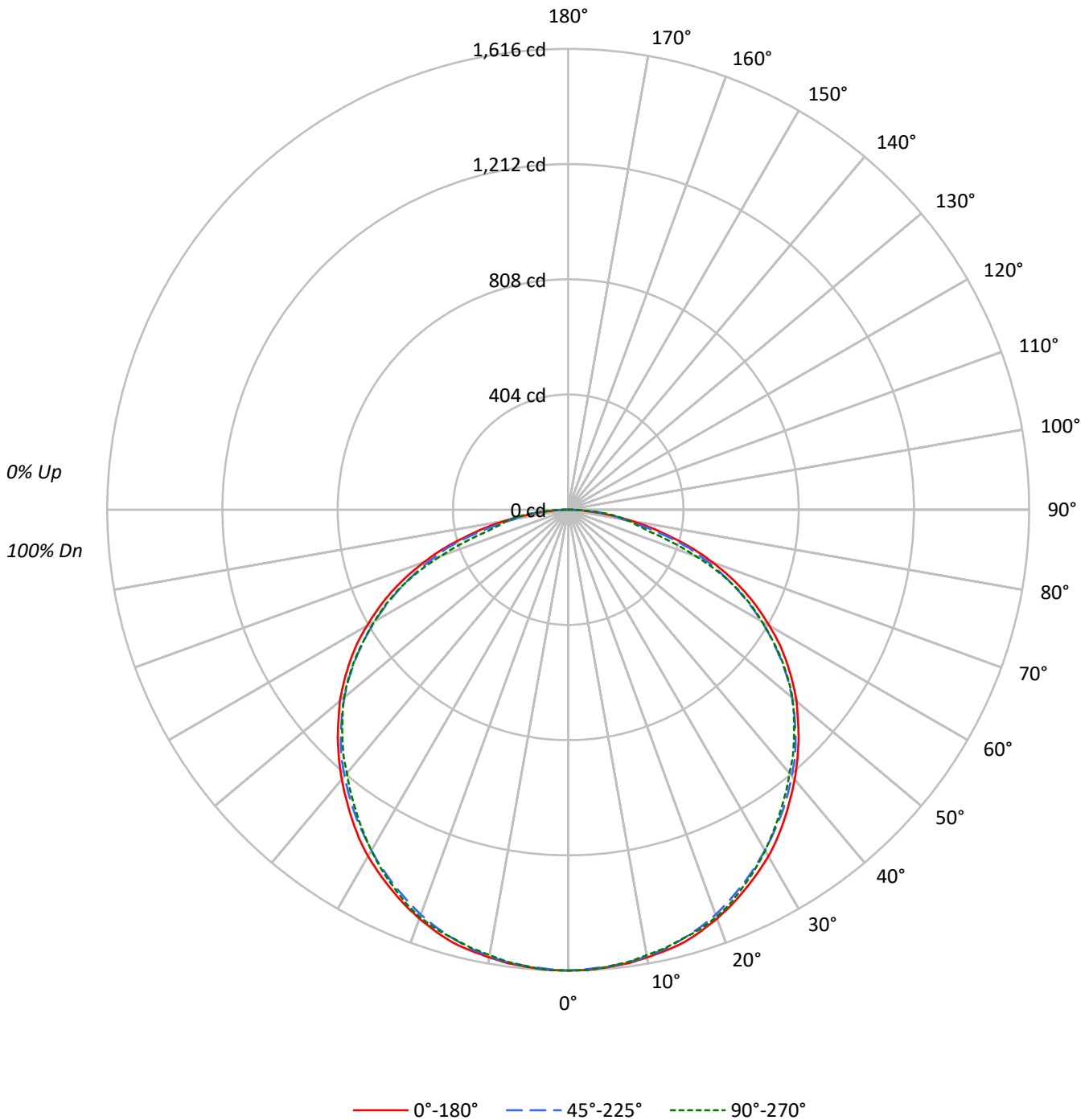
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4349	4349	4349
5°	4350	4342	4345
10°	4355	4345	4334
15°	4376	4338	4336
20°	4368	4327	4352
25°	4360	4303	4323
30°	4362	4287	4290
35°	4346	4282	4254
40°	4338	4281	4240
45°	4347	4289	4263
50°	4374	4286	4298
55°	4391	4259	4278
60°	4383	4211	4222
65°	4356	4122	4147
70°	4236	4008	3750
75°	3943	3692	3069
80°	3484	3050	3335
85°	2501	3276	3338



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	3.1
10°-20°	440.5	9.0
20°-30°	670.3	13.7
30°-40°	818.8	16.7
40°-50°	872.2	17.8
50°-60°	817.9	16.7
60°-70°	649.2	13.2
70°-80°	369.5	7.5
80°-90°	111.3	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°	1264.2	25.8
0°-40°	2083.0	42.5
0°-60°	3773.1	77.0
0°-90°	4903.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4903.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1610	1615	1607	1618	1608	153
15°	1571	1564	1557	1559	1556	443
25°	1468	1455	1449	1446	1456	677
35°	1323	1316	1304	1302	1295	828
45°	1142	1140	1127	1119	1120	881
55°	936	927	908	904	912	836
65°	684	671	647	652	651	674
75°	379	370	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°	1616.1	1616.1	1616.1	1616.1	1616.1
2.5°	1615.1	1621.9	1612.2	1619.9	1616.1
5°	1610.3	1615.1	1607.4	1618.0	1608.4
7.5°	1604.5	1607.4	1601.6	1611.3	1599.7
10°	1593.9	1595.8	1590.0	1597.7	1586.2
12.5°	1583.3	1580.4	1576.5	1579.4	1573.6
15°	1570.7	1564.0	1557.2	1559.2	1556.3
17.5°	1549.5	1540.8	1536.0	1534.1	1541.8
20°	1525.4	1514.8	1510.9	1509.0	1519.6
22.5°	1499.3	1485.8	1481.0	1479.1	1491.6
25°	1468.5	1455.0	1449.2	1446.3	1455.9
27.5°	1436.6	1422.1	1415.4	1413.5	1420.2
30°	1403.8	1387.4	1379.7	1378.7	1380.7
32.5°	1365.2	1352.7	1341.1	1342.1	1338.2
35°	1322.8	1316.0	1303.5	1301.5	1294.8
37.5°	1278.4	1278.4	1262.0	1264.9	1252.3
40°	1235.0	1235.9	1218.6	1219.5	1207.0
42.5°	1188.7	1191.6	1177.1	1169.4	1166.5
45°	1142.3	1140.4	1126.9	1119.2	1120.2
47.5°	1092.2	1092.2	1076.7	1070.0	1072.9
50°	1044.9	1041.0	1023.7	1017.9	1026.6
52.5°	990.9	986.0	968.7	961.9	970.6
55°	935.9	927.2	907.9	904.0	911.8
57.5°	879.0	867.4	846.1	844.2	848.1
60°	814.3	804.7	782.5	778.6	784.4
62.5°	751.6	738.1	715.9	715.9	721.7
65°	684.1	670.6	647.4	652.2	651.3
67.5°	612.7	599.2	578.9	580.8	570.2
70°	538.4	522.9	509.4	491.1	476.6
72.5°	463.1	446.7	441.9	399.4	385.0
75°	379.2	369.5	355.1	314.5	295.2
77.5°	304.9	295.2	269.2	238.3	243.1
80°	224.8	226.7	196.8	208.4	215.2
82.5°	147.6	152.4	159.2	167.9	169.8
85°	81.0	90.7	106.1	105.2	108.1
87.5°	31.8	42.5	46.3	48.2	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)