

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: P393214

Luminaire Tested: **14EN-LD2-51-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393214
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-L93050-W2A-1-U (4500K)
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4462.3 lumens
Efficiency: N/A
Efficacy: 88.9 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

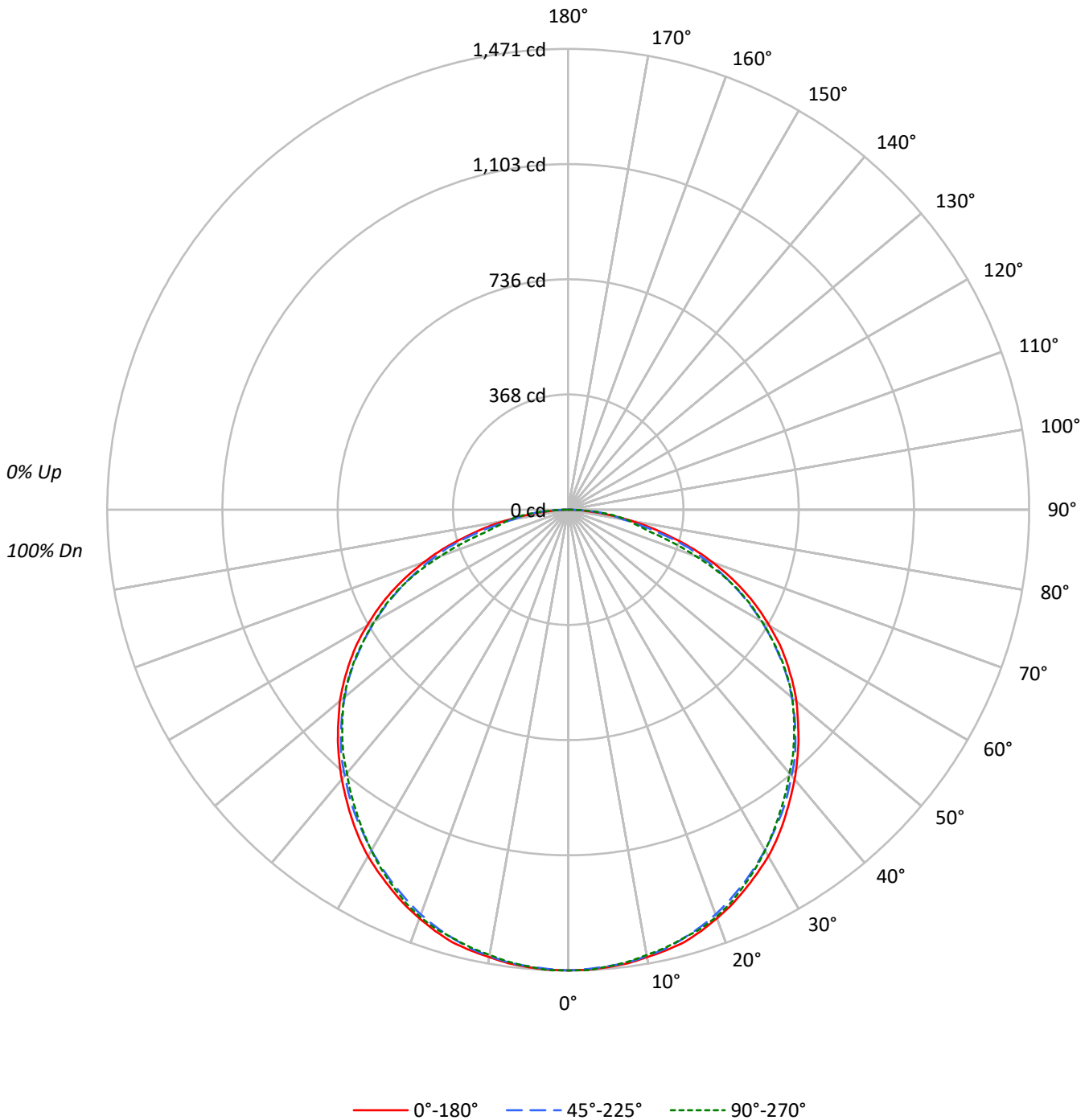
Input Watts (W): 50.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3958	3958	3958
5°	3959	3952	3954
10°	3964	3954	3945
15°	3982	3948	3946
20°	3975	3938	3960
25°	3968	3916	3934
30°	3970	3902	3904
35°	3955	3897	3871
40°	3948	3896	3859
45°	3956	3903	3880
50°	3981	3900	3911
55°	3996	3877	3893
60°	3989	3832	3842
65°	3964	3752	3774
70°	3855	3648	3413
75°	3588	3359	2794
80°	3171	2775	3034
85°	2279	2983	3035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	3.1
10°-20°	400.9	9.0
20°-30°	610.0	13.7
30°-40°	745.2	16.7
40°-50°	793.8	17.8
50°-60°	744.4	16.7
60°-70°	590.8	13.2
70°-80°	336.3	7.5
80°-90°	101.3	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°	1150.5	25.8
0°-40°	1895.7	42.5
0°-60°	3433.9	77.0
0°-90°	4462.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4462.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1466	1470	1463	1472	1464	139
15°	1430	1423	1417	1419	1416	403
25°	1336	1324	1319	1316	1325	617
35°	1204	1198	1186	1184	1178	754
45°	1040	1038	1026	1019	1020	802
55°	852	844	826	823	830	761
65°	623	610	589	594	593	614
75°	345	336	323	286	269	367
85°	74	82	97	96	98	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.8	1470.8	1470.8	1470.8	1470.8
2.5°	1469.9	1476.1	1467.3	1474.3	1470.8
5°	1465.5	1469.9	1462.9	1472.5	1463.8
7.5°	1460.3	1462.9	1457.6	1466.4	1455.9
10°	1450.6	1452.3	1447.1	1454.1	1443.6
12.5°	1440.9	1438.3	1434.8	1437.4	1432.2
15°	1429.5	1423.4	1417.2	1419.0	1416.3
17.5°	1410.2	1402.3	1397.9	1396.2	1403.2
20°	1388.2	1378.6	1375.1	1373.3	1383.0
22.5°	1364.5	1352.2	1347.9	1346.1	1357.5
25°	1336.4	1324.1	1318.9	1316.2	1325.0
27.5°	1307.5	1294.3	1288.1	1286.4	1292.5
30°	1277.6	1262.7	1255.7	1254.8	1256.5
32.5°	1242.5	1231.1	1220.5	1221.4	1217.9
35°	1203.9	1197.7	1186.3	1184.5	1178.4
37.5°	1163.5	1163.5	1148.5	1151.2	1139.8
40°	1123.9	1124.8	1109.0	1109.9	1098.5
42.5°	1081.8	1084.4	1071.3	1064.2	1061.6
45°	1039.6	1037.9	1025.6	1018.6	1019.5
47.5°	994.0	994.0	979.9	973.8	976.4
50°	951.0	947.5	931.6	926.4	934.3
52.5°	901.8	897.4	881.6	875.4	883.4
55°	851.7	843.8	826.3	822.8	829.8
57.5°	799.9	789.4	770.1	768.3	771.8
60°	741.1	732.3	712.1	708.6	713.9
62.5°	684.0	671.7	651.5	651.5	656.8
65°	622.6	610.3	589.2	593.6	592.7
67.5°	557.6	545.3	526.8	528.6	518.9
70°	490.0	475.9	463.6	446.9	433.8
72.5°	421.5	406.6	402.2	363.5	350.4
75°	345.1	336.3	323.1	286.3	268.7
77.5°	277.5	268.7	245.0	216.9	221.3
80°	204.6	206.3	179.1	189.7	195.8
82.5°	134.3	138.7	144.9	152.8	154.5
85°	73.8	82.5	96.6	95.7	98.3
87.5°	29.0	38.6	42.1	43.9	41.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)