

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: P393208

Luminaire Tested: **14EN-LD2-51-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393208  
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-L92765-W2A-1-U (5700K)  
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4349.4 lumens  
Efficiency: N/A  
Efficacy: 85.6 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

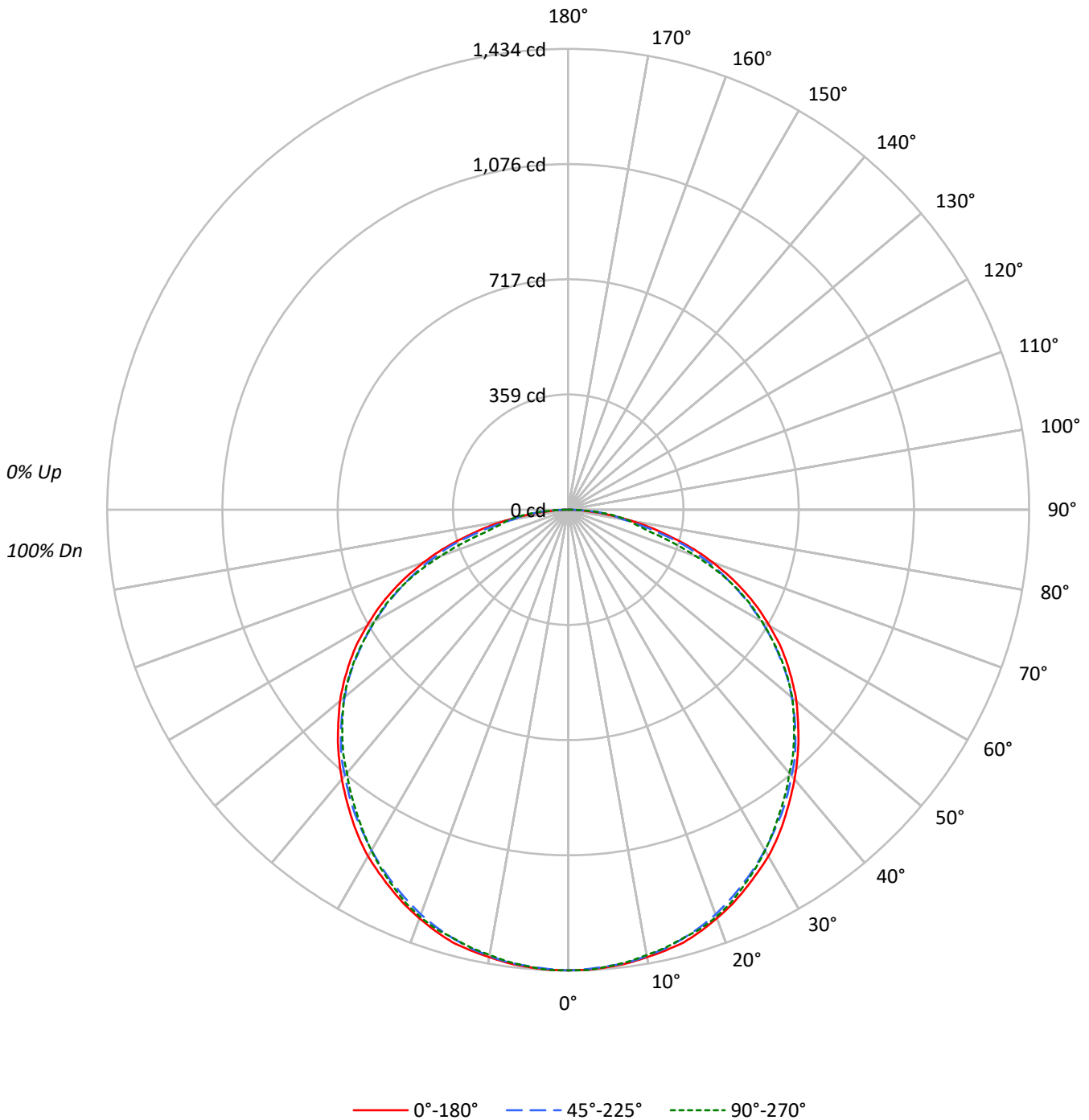
Input Watts (W): 50.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3858	3858	3858
5°	3858	3852	3854
10°	3863	3854	3845
15°	3882	3848	3846
20°	3875	3838	3860
25°	3868	3817	3835
30°	3869	3803	3805
35°	3855	3799	3773
40°	3848	3797	3761
45°	3856	3804	3782
50°	3880	3802	3812
55°	3895	3779	3795
60°	3888	3736	3745
65°	3864	3657	3678
70°	3758	3556	3327
75°	3498	3275	2723
80°	3090	2706	2958
85°	2220	2905	2961



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.0	3.1
10°-20°	390.8	9.0
20°-30°	594.6	13.7
30°-40°	726.3	16.7
40°-50°	773.7	17.8
50°-60°	725.6	16.7
60°-70°	575.9	13.2
70°-80°	327.8	7.5
80°-90°	98.7	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°	1121.4	25.8
0°-40°	1847.8	42.5
0°-60°	3347.0	77.0
0°-90°	4349.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4349.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1428	1433	1426	1435	1427	136
15°	1393	1387	1381	1383	1380	393
25°	1303	1291	1286	1283	1292	601
35°	1173	1167	1156	1155	1149	735
45°	1013	1012	1000	993	994	782
55°	830	822	805	802	809	741
65°	607	595	574	579	578	598
75°	336	328	315	279	262	358
85°	72	80	94	93	96	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1433.6	1433.6	1433.6	1433.6	1433.6
2.5°	1432.7	1438.7	1430.2	1437.0	1433.6
5°	1428.4	1432.7	1425.9	1435.3	1426.7
7.5°	1423.3	1425.9	1420.7	1429.3	1419.0
10°	1413.9	1415.6	1410.5	1417.3	1407.0
12.5°	1404.5	1401.9	1398.5	1401.1	1395.9
15°	1393.4	1387.4	1381.4	1383.1	1380.5
17.5°	1374.5	1366.8	1362.5	1360.8	1367.7
20°	1353.1	1343.7	1340.3	1338.6	1348.0
22.5°	1330.0	1318.0	1313.8	1312.0	1323.2
25°	1302.6	1290.6	1285.5	1282.9	1291.5
27.5°	1274.4	1261.6	1255.6	1253.8	1259.8
30°	1245.3	1230.7	1223.9	1223.0	1224.7
32.5°	1211.1	1199.9	1189.7	1190.5	1187.1
35°	1173.4	1167.4	1156.3	1154.6	1148.6
37.5°	1134.0	1134.0	1119.5	1122.0	1110.9
40°	1095.5	1096.4	1081.0	1081.8	1070.7
42.5°	1054.4	1057.0	1044.2	1037.3	1034.7
45°	1013.3	1011.6	999.7	992.8	993.7
47.5°	968.8	968.8	955.1	949.2	951.7
50°	926.9	923.5	908.1	902.9	910.6
52.5°	879.0	874.7	859.3	853.3	861.0
55°	830.2	822.5	805.4	801.9	808.8
57.5°	779.7	769.4	750.6	748.9	752.3
60°	722.4	713.8	694.1	690.7	695.8
62.5°	666.7	654.7	635.1	635.1	640.2
65°	606.8	594.8	574.3	578.6	577.7
67.5°	543.5	531.5	513.5	515.2	505.8
70°	477.6	463.9	451.9	435.6	422.8
72.5°	410.8	396.3	392.0	354.3	341.5
75°	336.4	327.8	315.0	279.0	261.9
77.5°	270.5	261.9	238.8	211.4	215.7
80°	199.4	201.1	174.6	184.9	190.9
82.5°	130.9	135.2	141.2	148.9	150.6
85°	71.9	80.5	94.1	93.3	95.9
87.5°	28.2	37.7	41.1	42.8	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)