

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: P393216

Luminaire Tested: **14EN-LD2-51-UNV-L93050-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393216  
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 (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: 4482.9 lumens  
Efficiency: N/A  
Efficacy: 89.5 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

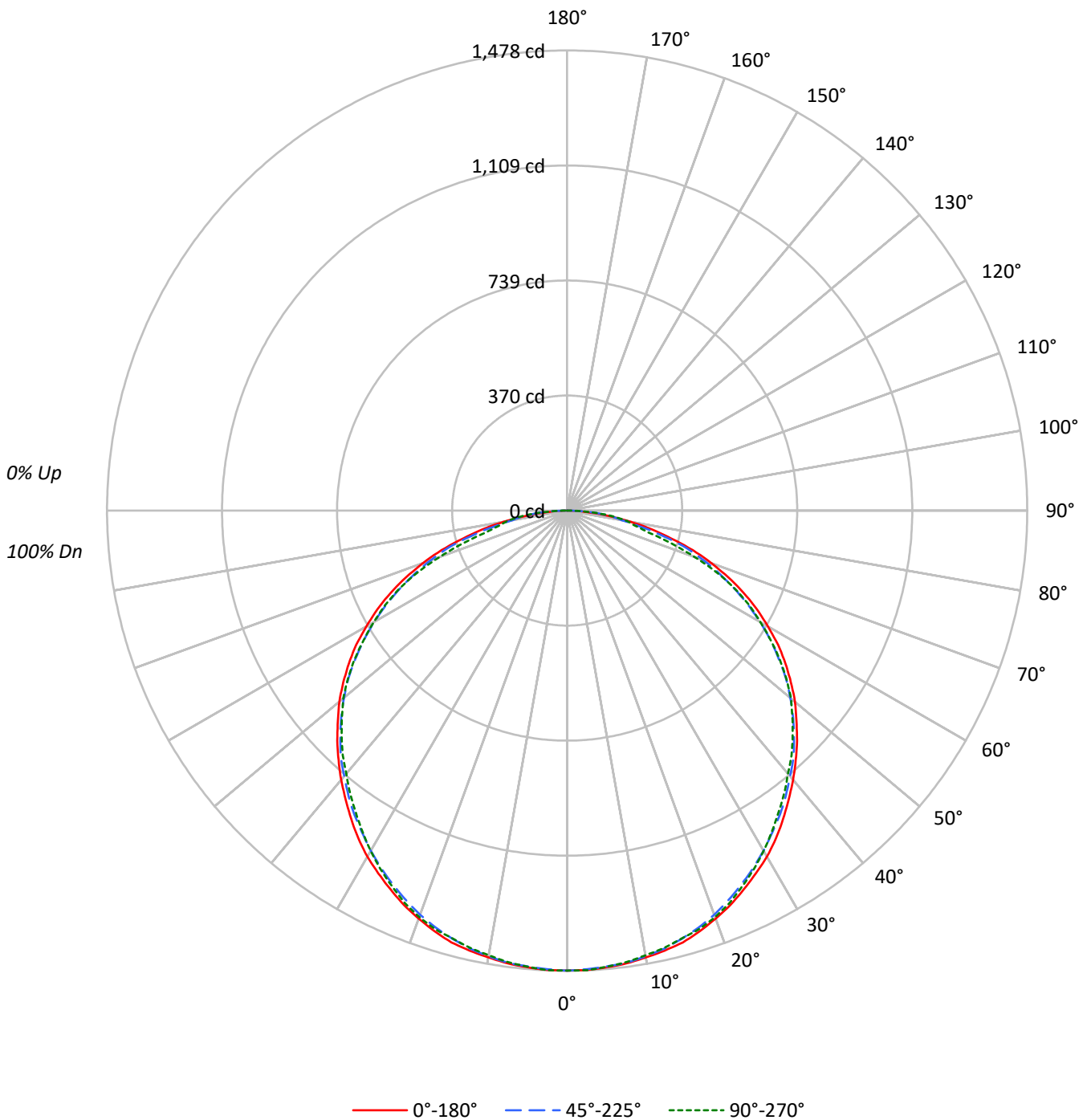
Input Watts (W): 50.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3976	3976	3976
5°	3977	3970	3972
10°	3982	3972	3963
15°	4001	3967	3964
20°	3994	3956	3979
25°	3986	3934	3953
30°	3988	3920	3923
35°	3973	3915	3889
40°	3967	3914	3877
45°	3975	3921	3898
50°	4000	3918	3929
55°	4015	3894	3911
60°	4007	3850	3860
65°	3982	3769	3792
70°	3873	3665	3429
75°	3605	3375	2806
80°	3185	2789	3048
85°	2288	2995	3051



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.2	3.1
10°-20°	402.8	9.0
20°-30°	612.8	13.7
30°-40°	748.6	16.7
40°-50°	797.4	17.8
50°-60°	747.8	16.7
60°-70°	593.6	13.2
70°-80°	337.9	7.5
80°-90°	101.8	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°	1155.9	25.8
0°-40°	1904.5	42.5
0°-60°	3449.8	77.0
0°-90°	4482.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1472	1477	1470	1479	1470	140
15°	1436	1430	1424	1426	1423	405
25°	1343	1330	1325	1322	1331	619
35°	1209	1203	1192	1190	1184	757
45°	1044	1043	1030	1023	1024	806
55°	856	848	830	827	834	764
65°	625	613	592	596	596	617
75°	347	338	325	288	270	369
85°	74	83	97	96	99	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1477.6	1477.6	1477.6	1477.6	1477.6
2.5°	1476.7	1482.9	1474.1	1481.1	1477.6
5°	1472.3	1476.7	1469.7	1479.4	1470.5
7.5°	1467.0	1469.7	1464.4	1473.2	1462.6
10°	1457.3	1459.1	1453.8	1460.8	1450.3
12.5°	1447.6	1445.0	1441.4	1444.1	1438.8
15°	1436.1	1430.0	1423.8	1425.6	1422.9
17.5°	1416.7	1408.8	1404.4	1402.6	1409.7
20°	1394.7	1385.0	1381.4	1379.7	1389.4
22.5°	1370.9	1358.5	1354.1	1352.3	1363.8
25°	1342.6	1330.3	1325.0	1322.3	1331.2
27.5°	1313.5	1300.3	1294.1	1292.3	1298.5
30°	1283.5	1268.5	1261.5	1260.6	1262.4
32.5°	1248.2	1236.8	1226.2	1227.1	1223.5
35°	1209.4	1203.3	1191.8	1190.0	1183.8
37.5°	1168.8	1168.8	1153.9	1156.5	1145.0
40°	1129.2	1130.0	1114.2	1115.0	1103.6
42.5°	1086.8	1089.5	1076.2	1069.2	1066.5
45°	1044.5	1042.7	1030.4	1023.3	1024.2
47.5°	998.6	998.6	984.5	978.3	981.0
50°	955.4	951.8	936.0	930.7	938.6
52.5°	906.0	901.6	885.7	879.5	887.4
55°	855.7	847.7	830.1	826.6	833.6
57.5°	803.6	793.1	773.6	771.9	775.4
60°	744.5	735.7	715.4	711.9	717.2
62.5°	687.2	674.8	654.6	654.6	659.8
65°	625.4	613.1	591.9	596.3	595.5
67.5°	560.2	547.8	529.3	531.1	521.4
70°	492.2	478.1	465.8	449.0	435.8
72.5°	423.4	408.4	404.0	365.2	352.0
75°	346.7	337.9	324.6	287.6	269.9
77.5°	278.8	269.9	246.1	217.9	222.3
80°	205.5	207.3	180.0	190.5	196.7
82.5°	135.0	139.4	145.6	153.5	155.3
85°	74.1	82.9	97.0	96.2	98.8
87.5°	29.1	38.8	42.3	44.1	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)