

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: P393189

Luminaire Tested: **14EN-LD2-51-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393189  
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 (4000K)  
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4747.2 lumens  
Efficiency: N/A  
Efficacy: 92.9 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

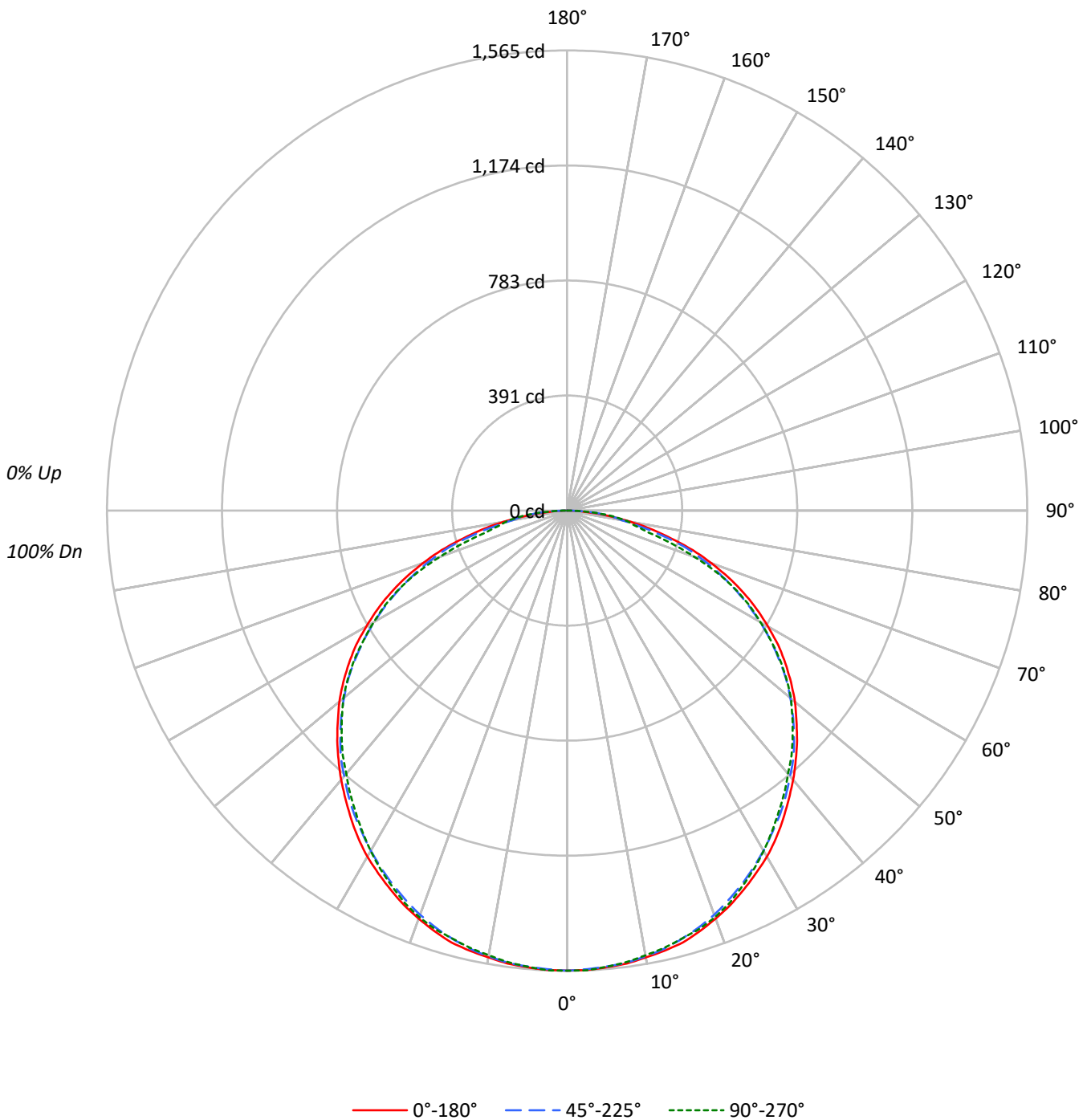
Input Watts (W): 51.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4211	4211	4211
5°	4212	4204	4206
10°	4217	4207	4196
15°	4237	4200	4198
20°	4229	4189	4213
25°	4222	4166	4185
30°	4223	4151	4154
35°	4207	4146	4118
40°	4200	4144	4105
45°	4209	4152	4127
50°	4235	4149	4161
55°	4251	4124	4142
60°	4243	4077	4088
65°	4217	3991	4015
70°	4102	3880	3631
75°	3817	3575	2972
80°	3374	2954	3228
85°	2424	3174	3230



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.5	3.1
10°-20°	426.5	9.0
20°-30°	649.0	13.7
30°-40°	792.8	16.7
40°-50°	844.4	17.8
50°-60°	791.9	16.7
60°-70°	628.5	13.2
70°-80°	357.8	7.5
80°-90°	107.7	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°	1224.0	25.8
0°-40°	2016.8	42.5
0°-60°	3653.1	77.0
0°-90°	4747.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4747.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1559	1564	1556	1567	1557	148
15°	1521	1514	1508	1510	1507	429
25°	1422	1409	1403	1400	1410	656
35°	1281	1274	1262	1260	1254	802
45°	1106	1104	1091	1084	1084	853
55°	906	898	879	875	883	809
65°	662	649	627	632	630	653
75°	367	358	344	304	286	390
85°	78	88	103	102	105	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1564.7	1564.7	1564.7	1564.7	1564.7
2.5°	1563.8	1570.3	1561.0	1568.4	1564.7
5°	1559.1	1563.8	1556.3	1566.6	1557.2
7.5°	1553.5	1556.3	1550.7	1560.0	1548.8
10°	1543.2	1545.1	1539.5	1546.9	1535.7
12.5°	1532.9	1530.1	1526.4	1529.2	1523.6
15°	1520.8	1514.2	1507.7	1509.6	1506.8
17.5°	1500.2	1491.8	1487.2	1485.3	1492.8
20°	1476.9	1466.6	1462.9	1461.0	1471.3
22.5°	1451.7	1438.6	1433.9	1432.0	1444.2
25°	1421.8	1408.7	1403.1	1400.3	1409.6
27.5°	1390.9	1376.9	1370.4	1368.5	1375.1
30°	1359.2	1343.3	1335.8	1334.9	1336.8
32.5°	1321.8	1309.7	1298.5	1299.4	1295.7
35°	1280.7	1274.2	1262.0	1260.2	1253.6
37.5°	1237.7	1237.7	1221.9	1224.7	1212.5
40°	1195.7	1196.6	1179.8	1180.8	1168.6
42.5°	1150.9	1153.7	1139.7	1132.2	1129.4
45°	1106.0	1104.2	1091.1	1083.6	1084.5
47.5°	1057.5	1057.5	1042.5	1036.0	1038.8
50°	1011.7	1007.9	991.1	985.5	993.9
52.5°	959.4	954.7	937.9	931.3	939.8
55°	906.1	897.7	879.0	875.3	882.8
57.5°	851.0	839.8	819.2	817.4	821.1
60°	788.4	779.1	757.6	753.9	759.5
62.5°	727.7	714.6	693.1	693.1	698.7
65°	662.3	649.2	626.8	631.5	630.5
67.5°	593.2	580.1	560.5	562.4	552.1
70°	521.3	506.3	493.2	475.5	461.5
72.5°	448.4	432.5	427.8	386.7	372.7
75°	367.1	357.8	343.8	304.5	285.8
77.5°	295.2	285.8	260.6	230.7	235.4
80°	217.7	219.5	190.6	201.8	208.3
82.5°	142.9	147.6	154.1	162.5	164.4
85°	78.5	87.8	102.8	101.8	104.6
87.5°	30.8	41.1	44.8	46.7	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)