

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: P393207

Luminaire Tested: **14EN-LD2-51-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393207  
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 (5000K)  
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: 4283.5 lumens  
Efficiency: N/A  
Efficacy: 84.2 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

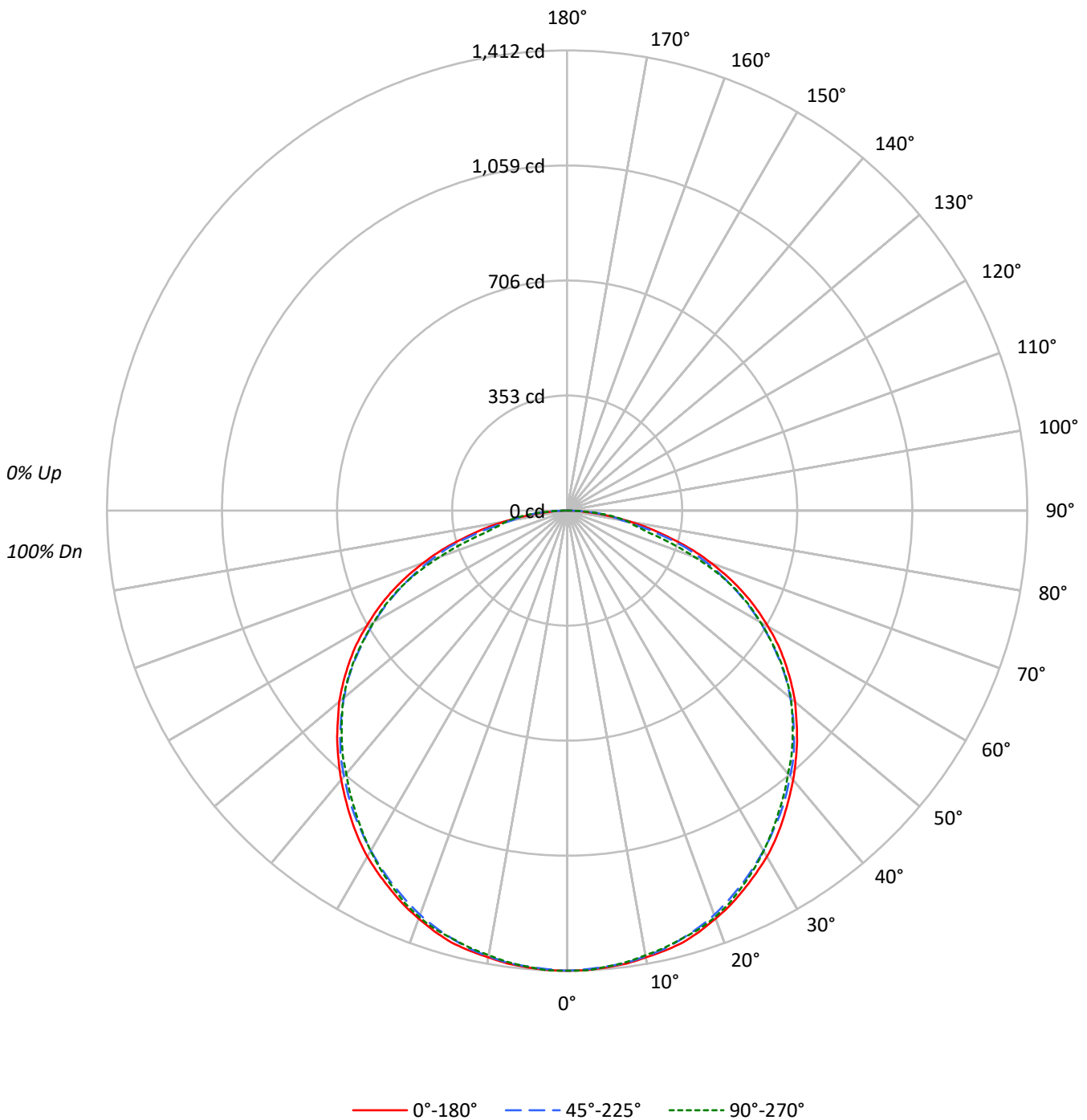
Input Watts (W): 50.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3799	3799	3799
5°	3800	3793	3796
10°	3805	3796	3786
15°	3823	3790	3788
20°	3816	3780	3802
25°	3809	3759	3776
30°	3811	3745	3748
35°	3796	3741	3716
40°	3790	3740	3704
45°	3798	3747	3724
50°	3822	3744	3754
55°	3836	3721	3737
60°	3829	3679	3688
65°	3805	3601	3623
70°	3700	3502	3276
75°	3445	3225	2681
80°	3044	2665	2913
85°	2186	2862	2915



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.0	3.1
10°-20°	384.9	9.0
20°-30°	585.6	13.7
30°-40°	715.3	16.7
40°-50°	762.0	17.8
50°-60°	714.6	16.7
60°-70°	567.1	13.2
70°-80°	322.8	7.5
80°-90°	97.2	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°	1104.4	25.8
0°-40°	1819.8	42.5
0°-60°	3296.3	77.0
0°-90°	4283.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4283.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1407	1411	1404	1414	1405	134
15°	1372	1366	1360	1362	1360	387
25°	1283	1271	1266	1264	1272	592
35°	1156	1150	1139	1137	1131	723
45°	998	996	984	978	979	770
55°	818	810	793	790	796	730
65°	598	586	566	570	569	589
75°	331	323	310	275	258	352
85°	71	79	93	92	94	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1411.9	1411.9	1411.9	1411.9	1411.9
2.5°	1411.0	1416.9	1408.5	1415.2	1411.9
5°	1406.8	1411.0	1404.3	1413.5	1405.1
7.5°	1401.7	1404.3	1399.2	1407.6	1397.5
10°	1392.5	1394.2	1389.1	1395.8	1385.7
12.5°	1383.2	1380.7	1377.3	1379.8	1374.8
15°	1372.2	1366.3	1360.4	1362.1	1359.6
17.5°	1353.7	1346.1	1341.9	1340.2	1347.0
20°	1332.6	1323.4	1320.0	1318.3	1327.6
22.5°	1309.9	1298.1	1293.9	1292.2	1303.1
25°	1282.9	1271.1	1266.0	1263.5	1271.9
27.5°	1255.1	1242.4	1236.5	1234.8	1240.7
30°	1226.4	1212.1	1205.3	1204.5	1206.2
32.5°	1192.7	1181.7	1171.6	1172.5	1169.1
35°	1155.6	1149.7	1138.8	1137.1	1131.2
37.5°	1116.8	1116.8	1102.5	1105.0	1094.1
40°	1078.9	1079.8	1064.6	1065.4	1054.5
42.5°	1038.5	1041.0	1028.3	1021.6	1019.1
45°	998.0	996.3	984.5	977.8	978.6
47.5°	954.2	954.2	940.7	934.8	937.3
50°	912.9	909.5	894.3	889.3	896.8
52.5°	865.7	861.4	846.3	840.4	848.0
55°	817.6	810.0	793.2	789.8	796.5
57.5°	767.9	757.8	739.2	737.5	740.9
60°	711.4	703.0	683.6	680.2	685.3
62.5°	656.6	644.8	625.4	625.4	630.5
65°	597.6	585.8	565.6	569.8	569.0
67.5°	535.2	523.4	505.7	507.4	498.2
70°	470.3	456.9	445.1	429.0	416.4
72.5°	404.6	390.3	386.0	349.0	336.3
75°	331.3	322.8	310.2	274.8	257.9
77.5°	266.4	257.9	235.2	208.2	212.4
80°	196.4	198.1	172.0	182.1	188.0
82.5°	129.0	133.2	139.1	146.7	148.4
85°	70.8	79.2	92.7	91.9	94.4
87.5°	27.8	37.1	40.5	42.1	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)