

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: P393203

Luminaire Tested: **14EN-LD2-51-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393203  
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 (3000K)  
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: 3934.1 lumens  
Efficiency: N/A  
Efficacy: 77.7 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

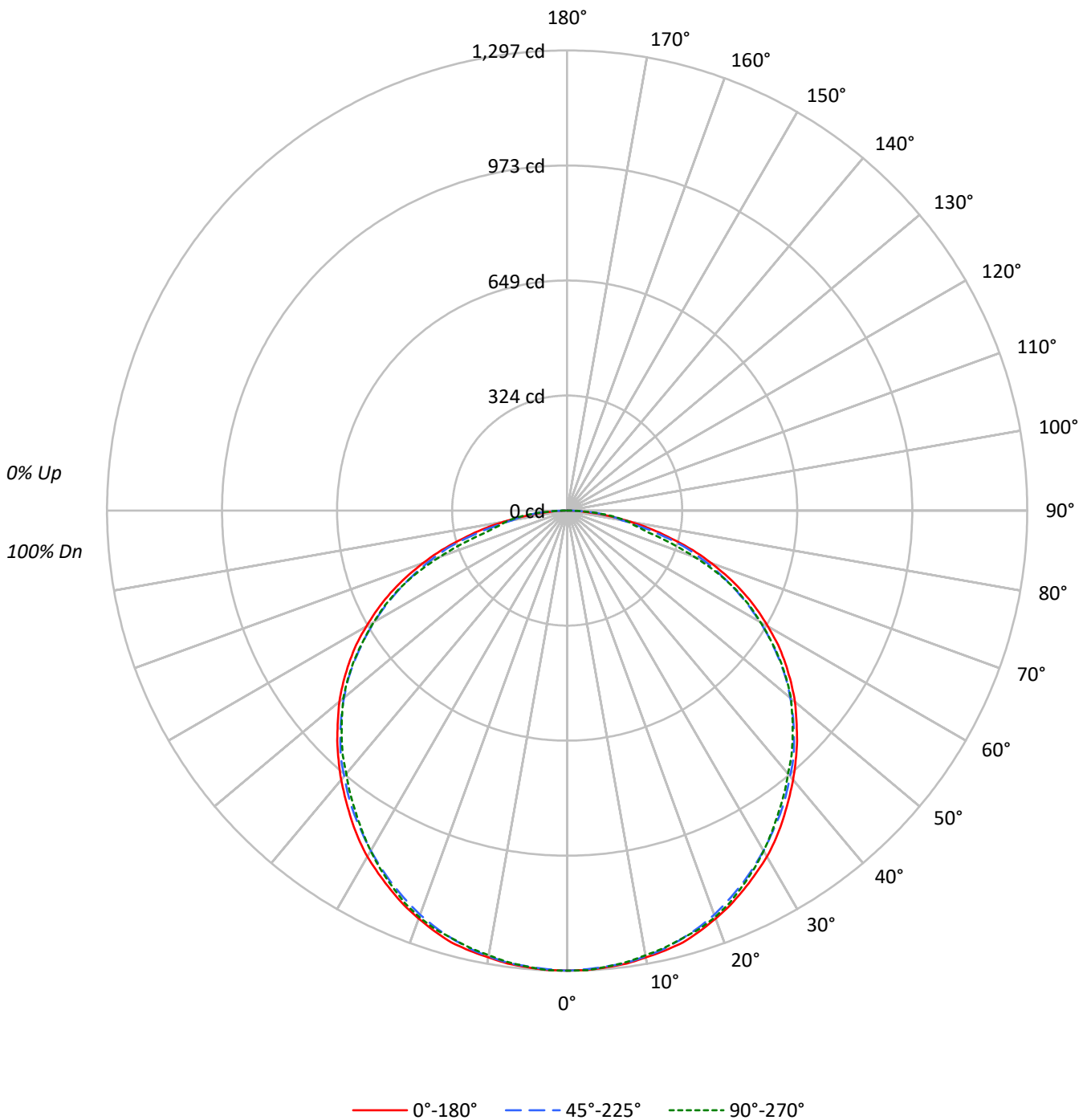
Input Watts (W): 50.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3489	3489	3489
5°	3490	3484	3486
10°	3495	3486	3478
15°	3511	3481	3479
20°	3505	3472	3492
25°	3499	3453	3469
30°	3500	3440	3442
35°	3487	3436	3413
40°	3481	3435	3402
45°	3488	3441	3420
50°	3510	3439	3448
55°	3523	3418	3432
60°	3517	3379	3387
65°	3495	3308	3328
70°	3399	3216	3009
75°	3163	2962	2463
80°	2796	2447	2675
85°	2007	2631	2677



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.0	3.1
10°-20°	353.5	9.0
20°-30°	537.8	13.7
30°-40°	657.0	16.7
40°-50°	699.8	17.8
50°-60°	656.3	16.7
60°-70°	520.9	13.2
70°-80°	296.5	7.5
80°-90°	89.3	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°	1014.3	25.8
0°-40°	1671.3	42.5
0°-60°	3027.4	77.0
0°-90°	3934.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3934.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1292	1296	1290	1298	1290	123
15°	1260	1255	1250	1251	1249	355
25°	1178	1167	1163	1160	1168	544
35°	1061	1056	1046	1044	1039	664
45°	917	915	904	898	899	707
55°	751	744	728	725	732	671
65°	549	538	520	523	523	541
75°	304	296	285	252	237	323
85°	65	73	85	84	87	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1296.7	1296.7	1296.7	1296.7	1296.7
2.5°	1295.9	1301.4	1293.6	1299.8	1296.7
5°	1292.1	1295.9	1289.7	1298.3	1290.5
7.5°	1287.4	1289.7	1285.1	1292.8	1283.5
10°	1278.9	1280.4	1275.8	1282.0	1272.7
12.5°	1270.4	1268.1	1265.0	1267.3	1262.6
15°	1260.3	1254.9	1249.5	1251.0	1248.7
17.5°	1243.3	1236.3	1232.5	1230.9	1237.1
20°	1223.9	1215.4	1212.3	1210.8	1219.3
22.5°	1203.0	1192.2	1188.3	1186.8	1196.8
25°	1178.3	1167.4	1162.8	1160.5	1168.2
27.5°	1152.7	1141.1	1135.7	1134.1	1139.6
30°	1126.4	1113.2	1107.0	1106.3	1107.8
32.5°	1095.4	1085.4	1076.1	1076.8	1073.8
35°	1061.4	1055.9	1045.9	1044.3	1038.9
37.5°	1025.8	1025.8	1012.6	1014.9	1004.9
40°	990.9	991.7	977.8	978.5	968.5
42.5°	953.8	956.1	944.5	938.3	936.0
45°	916.6	915.0	904.2	898.0	898.8
47.5°	876.3	876.3	864.0	858.5	860.9
50°	838.4	835.3	821.4	816.7	823.7
52.5°	795.1	791.2	777.2	771.8	778.8
55°	750.9	744.0	728.5	725.4	731.6
57.5°	705.3	696.0	678.9	677.4	680.5
60°	653.4	645.6	627.8	624.7	629.4
62.5°	603.1	592.2	574.4	574.4	579.1
65°	548.9	538.0	519.5	523.3	522.6
67.5°	491.6	480.7	464.5	466.0	457.5
70°	432.0	419.6	408.8	394.0	382.4
72.5°	371.6	358.4	354.6	320.5	308.9
75°	304.2	296.5	284.9	252.4	236.9
77.5°	244.6	236.9	216.0	191.2	195.1
80°	180.4	181.9	157.9	167.2	172.6
82.5°	118.4	122.3	127.7	134.7	136.3
85°	65.0	72.8	85.2	84.4	86.7
87.5°	25.5	34.1	37.2	38.7	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)