

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: P393380

Luminaire Tested: **22EN-LD2-43-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-43-UNV-L82765-W2A-1-U (3500K)  
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4069.7 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

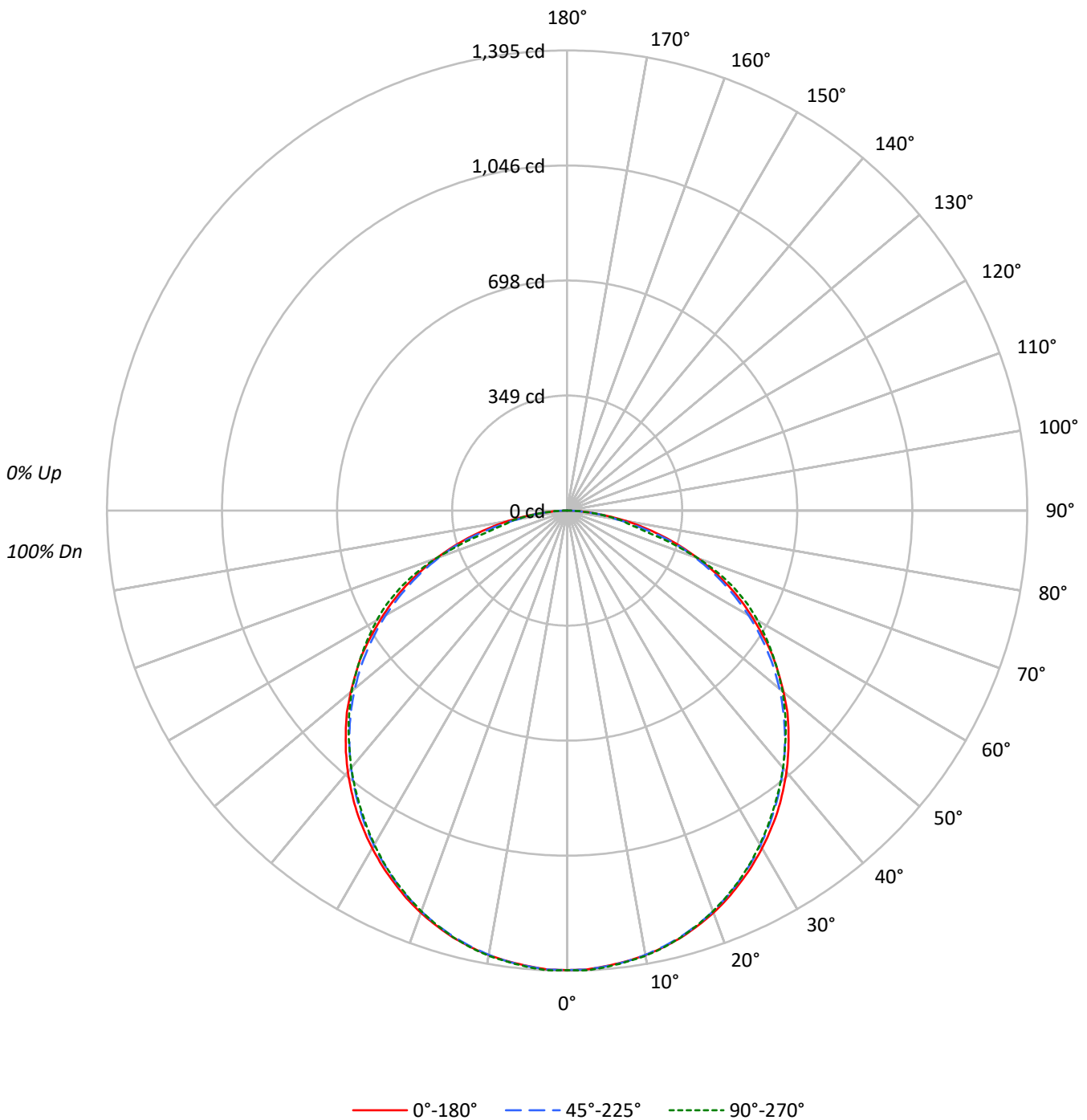
Input Watts (W): 32.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3749	3749	3749
5°	3743	3746	3751
10°	3740	3737	3745
15°	3731	3723	3728
20°	3716	3702	3702
25°	3692	3673	3670
30°	3673	3640	3631
35°	3656	3609	3597
40°	3633	3580	3576
45°	3612	3550	3568
50°	3584	3517	3569
55°	3559	3475	3568
60°	3492	3420	3589
65°	3431	3341	3576
70°	3308	3234	3316
75°	3121	2954	2570
80°	2803	2348	2524
85°	2075	2133	2047



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.8	3.2
10°-20°	377.2	9.3
20°-30°	570.7	14.0
30°-40°	689.0	16.9
40°-50°	723.4	17.8
50°-60°	669.8	16.5
60°-70°	530.0	13.0
70°-80°	298.1	7.3
80°-90°	79.8	2.0
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°	1079.7	26.5
0°-40°	1768.7	43.5
0°-60°	3161.9	77.7
0°-90°	4069.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4069.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1386	1385	1387	1387	1388	132
15°	1339	1337	1336	1336	1338	378
25°	1244	1242	1237	1235	1236	573
35°	1113	1108	1099	1093	1095	696
45°	949	944	933	930	938	732
55°	759	751	741	747	760	676
65°	539	532	525	545	562	532
75°	300	296	284	260	247	317
85°	67	65	69	65	66	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1393.2	1393.2	1393.2	1393.2	<i>1393.2</i>
2.5°	<i>1392.3</i>	<i>1391.3</i>	<i>1392.3</i>	<i>1392.3</i>	<i>1395.1</i>
5°	1385.6	1384.7	1386.6	1386.6	<i>1388.5</i>
7.5°	1378.1	1377.1	1379.0	1379.0	<i>1379.9</i>
10°	1368.6	1366.7	1367.6	1368.6	<i>1370.5</i>
12.5°	1355.3	1353.4	1353.4	1354.4	<i>1356.3</i>
15°	1339.2	1337.3	1336.4	1336.4	<i>1338.3</i>
17.5°	1319.3	1316.5	1316.5	1314.6	<i>1316.5</i>
20°	1297.5	1294.7	1292.8	1290.9	<i>1292.8</i>
22.5°	1272.0	1269.1	1266.3	1264.4	<i>1265.3</i>
25°	1243.6	1241.7	1236.9	1235.0	<i>1236.0</i>
27.5°	1214.2	1211.4	1205.7	1201.9	<i>1203.8</i>
30°	1182.0	1178.2	1171.6	1166.8	<i>1168.7</i>
32.5°	1147.9	1144.1	1136.5	1130.9	<i>1132.7</i>
35°	1112.9	1108.1	1098.7	1093.0	<i>1094.9</i>
37.5°	1074.0	1070.2	1059.8	1054.1	<i>1057.0</i>
40°	1034.2	1030.5	1019.1	1014.4	<i>1018.1</i>
42.5°	992.6	988.8	976.5	971.7	<i>977.4</i>
45°	949.0	944.3	932.9	930.1	<i>937.6</i>
47.5°	905.4	898.8	887.4	885.6	<i>895.0</i>
50°	856.2	851.5	840.1	841.0	<i>852.4</i>
52.5°	806.9	803.2	791.8	795.6	<i>806.0</i>
55°	758.6	751.1	740.6	747.3	<i>760.5</i>
57.5°	702.8	698.0	688.6	699.0	<i>713.2</i>
60°	648.8	645.0	635.5	648.8	<i>666.8</i>
62.5°	595.7	588.2	579.6	598.6	<i>617.5</i>
65°	538.9	532.3	524.7	544.6	<i>561.6</i>
67.5°	480.2	473.6	467.9	485.9	<i>498.2</i>
70°	420.5	414.8	411.0	416.7	<i>421.5</i>
72.5°	360.9	355.2	352.3	339.1	<i>335.3</i>
75°	300.2	295.5	284.1	259.5	<i>247.2</i>
77.5°	239.6	233.9	215.0	191.3	<i>192.3</i>
80°	180.9	174.3	151.5	158.2	<i>162.9</i>
82.5°	123.1	118.4	113.7	111.8	<i>112.7</i>
85°	67.2	65.4	69.1	65.4	<i>66.3</i>
87.5°	27.5	28.4	30.3	29.4	<i>29.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)