

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: P393310

Luminaire Tested: **22EN-LD2-30-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-30-UNV-L93050-W2A-1-U (4500K)
Description: 2X2 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2633.7 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

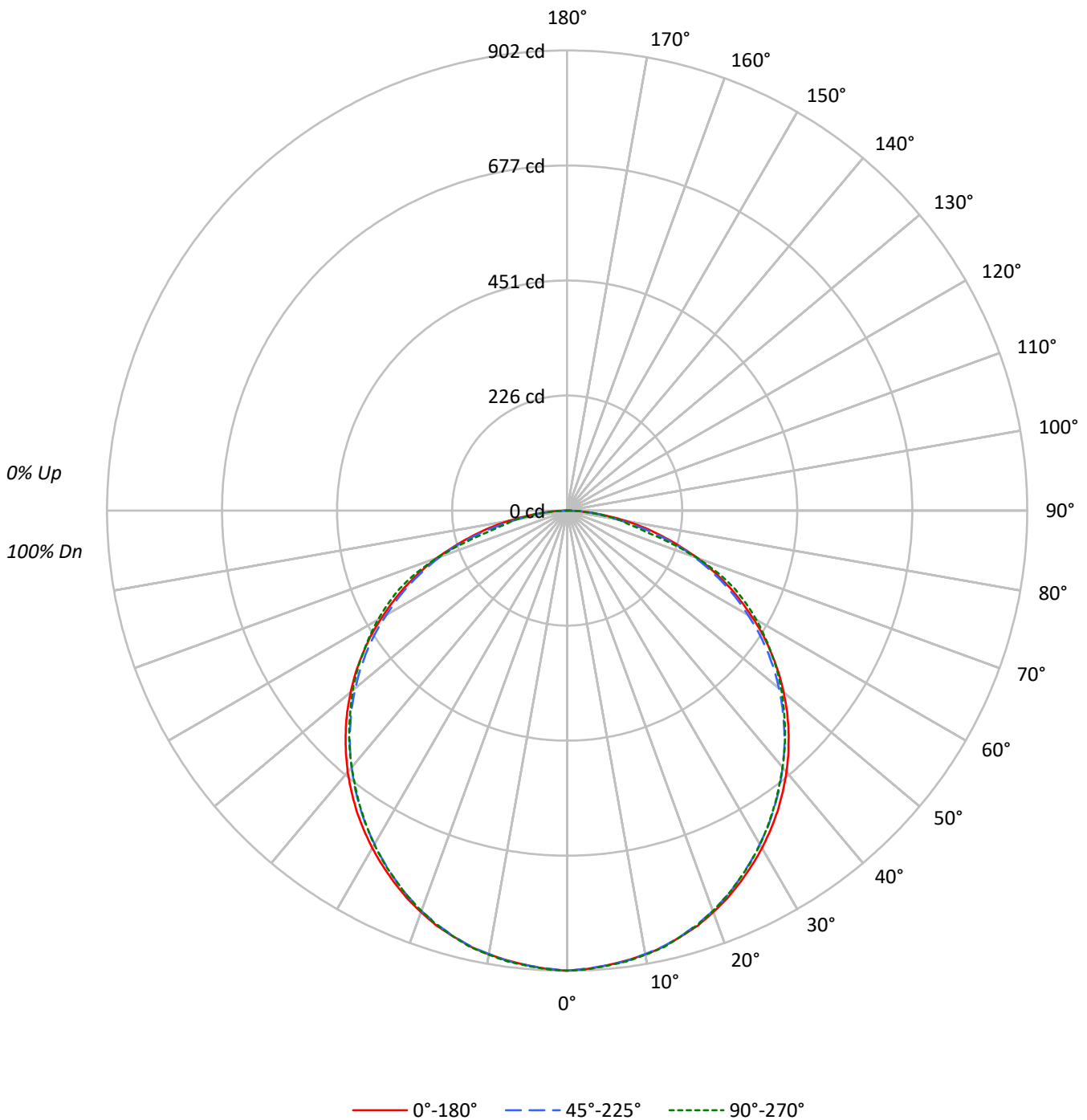
Input Watts (W): 21.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	36	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°	2427	2427	2427
5°	2417	2417	2419
10°	2414	2411	2416
15°	2407	2405	2407
20°	2399	2391	2391
25°	2385	2370	2370
30°	2374	2347	2349
35°	2363	2328	2325
40°	2350	2307	2307
45°	2336	2289	2299
50°	2320	2268	2298
55°	2295	2245	2295
60°	2259	2202	2306
65°	2214	2158	2309
70°	2135	2087	2135
75°	1990	1899	1644
80°	1810	1537	1619
85°	1328	1355	1300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	3.2
10°-20°	244.3	9.3
20°-30°	369.3	14.0
30°-40°	446.1	16.9
40°-50°	468.3	17.8
50°-60°	433.6	16.5
60°-70°	342.9	13.0
70°-80°	192.3	7.3
80°-90°	51.6	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°	698.9	26.5
0°-40°	1145.0	43.5
0°-60°	2046.9	77.7
0°-90°	2633.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2633.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	895	904	895	896	896	85
15°	864	873	863	862	864	244
25°	803	810	798	796	798	370
35°	719	724	709	705	708	450
45°	614	617	602	599	604	474
55°	489	490	479	483	489	437
65°	348	348	339	350	363	343
75°	191	192	183	165	158	203
85°	43	43	44	43	42	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	901.8	901.8	901.8	901.8	901.8
2.5°	899.2	907.1	898.3	899.2	900.0
5°	894.8	903.5	894.8	895.6	895.6
7.5°	889.5	898.3	890.4	889.5	891.3
10°	883.4	892.1	882.5	883.4	884.2
12.5°	875.4	883.4	874.6	874.6	876.3
15°	864.0	872.8	863.2	862.3	864.0
17.5°	852.6	859.6	850.0	849.1	850.9
20°	837.7	845.6	835.1	833.3	835.1
22.5°	821.9	828.9	817.5	815.7	817.5
25°	803.4	810.5	798.2	795.5	798.2
27.5°	784.1	790.3	777.1	774.5	778.0
30°	763.9	770.1	755.2	752.5	756.0
32.5°	742.0	747.2	733.2	728.8	732.3
35°	719.2	724.4	708.6	705.1	707.7
37.5°	694.6	699.8	684.0	680.5	682.3
40°	669.1	673.5	656.8	653.3	656.8
42.5°	641.9	646.3	630.5	627.8	631.3
45°	613.8	617.3	601.5	598.9	604.1
47.5°	584.8	588.3	572.5	571.6	576.0
50°	554.1	556.7	541.8	542.7	548.8
52.5°	522.5	523.3	511.0	513.7	519.8
55°	489.1	490.0	478.6	482.9	489.1
57.5°	455.7	456.6	445.2	450.5	459.2
60°	419.7	420.6	409.2	418.8	428.5
62.5°	383.7	384.6	374.9	385.5	396.0
65°	347.7	347.7	338.9	350.4	362.6
67.5°	310.0	310.0	302.1	313.5	320.5
70°	271.3	272.2	265.2	267.8	271.3
72.5°	230.9	232.7	226.5	216.9	214.3
75°	191.4	192.3	182.6	165.1	158.1
77.5°	154.5	152.8	138.7	122.9	122.9
80°	116.8	115.0	99.2	101.9	104.5
82.5°	78.1	78.1	72.9	72.0	72.0
85°	43.0	43.0	43.9	43.0	42.1
87.5°	18.4	18.4	19.3	19.3	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)