

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: P393301

Luminaire Tested: **22EN-LD2-30-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393301
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-L92765-W2A-1-U (4000K)
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: 2480.6 lumens
Efficiency: N/A
Efficacy: 113.8 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

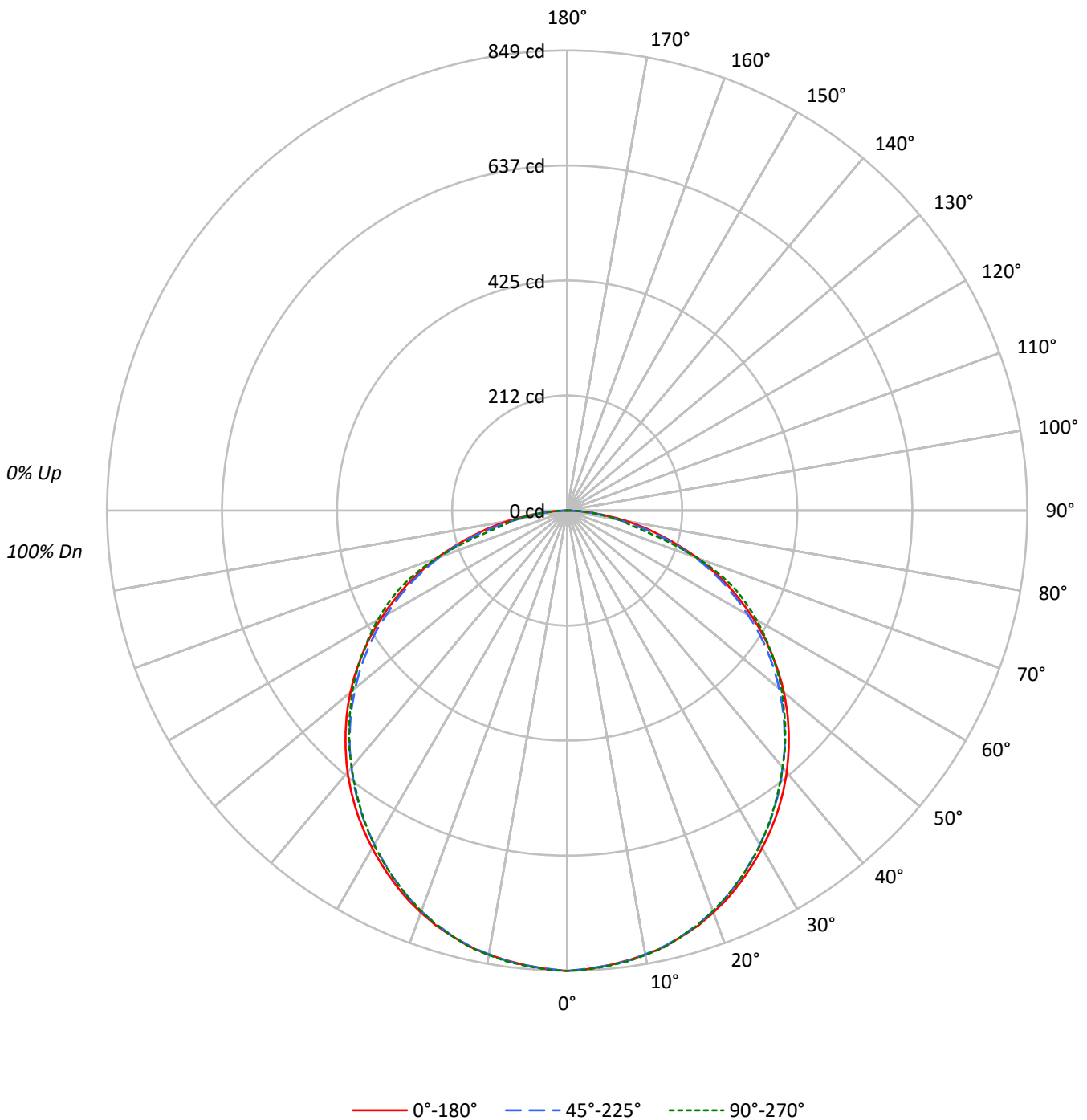
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2286	2286	2286
5°	2277	2277	2279
10°	2273	2271	2276
15°	2267	2265	2267
20°	2259	2252	2252
25°	2247	2232	2232
30°	2236	2210	2213
35°	2225	2192	2190
40°	2214	2173	2173
45°	2200	2156	2165
50°	2185	2136	2164
55°	2161	2114	2161
60°	2127	2074	2172
65°	2085	2032	2175
70°	2011	1965	2011
75°	1875	1788	1548
80°	1705	1449	1525
85°	1250	1278	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.2
10°-20°	230.1	9.3
20°-30°	347.9	14.0
30°-40°	420.2	16.9
40°-50°	441.1	17.8
50°-60°	408.4	16.5
60°-70°	323.0	13.0
70°-80°	181.1	7.3
80°-90°	48.6	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°	658.3	26.5
0°-40°	1078.4	43.5
0°-60°	1927.9	77.7
0°-90°	2480.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	843	851	843	844	844	80
15°	814	822	813	812	814	230
25°	757	763	752	749	752	349
35°	677	682	667	664	667	424
45°	578	581	566	564	569	446
55°	461	462	451	455	461	412
65°	328	328	319	330	342	323
75°	180	181	172	156	149	192
85°	40	40	41	40	40	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	849.4	849.4	849.4	849.4	849.4
2.5°	846.9	854.3	846.1	846.9	847.7
5°	842.8	851.0	842.8	843.6	843.6
7.5°	837.8	846.1	838.6	837.8	839.4
10°	832.0	840.3	831.2	832.0	832.8
12.5°	824.6	832.0	823.7	823.7	825.4
15°	813.8	822.1	813.0	812.2	813.8
17.5°	803.1	809.7	800.6	799.7	801.4
20°	789.0	796.4	786.5	784.9	786.5
22.5°	774.1	780.7	770.0	768.3	770.0
25°	756.7	763.4	751.8	749.3	751.8
27.5°	738.5	744.3	731.9	729.4	732.8
30°	719.5	725.3	711.3	708.8	712.1
32.5°	698.8	703.8	690.6	686.4	689.7
35°	677.3	682.3	667.4	664.1	666.6
37.5°	654.2	659.1	644.3	641.0	642.6
40°	630.2	634.3	618.6	615.3	618.6
42.5°	604.6	608.7	593.8	591.3	594.6
45°	578.1	581.4	566.5	564.0	569.0
47.5°	550.8	554.1	539.2	538.4	542.5
50°	521.9	524.3	510.3	511.1	516.9
52.5°	492.1	492.9	481.3	483.8	489.6
55°	460.7	461.5	450.7	454.9	460.7
57.5°	429.2	430.1	419.3	424.3	432.5
60°	395.3	396.2	385.4	394.5	403.6
62.5°	361.4	362.2	353.1	363.1	373.0
65°	327.5	327.5	319.2	330.0	341.6
67.5°	291.9	291.9	284.5	295.3	301.9
70°	255.6	256.4	249.8	252.2	255.6
72.5°	217.5	219.2	213.4	204.3	201.8
75°	180.3	181.1	172.0	155.5	148.9
77.5°	145.6	143.9	130.7	115.8	115.8
80°	110.0	108.3	93.5	95.9	98.4
82.5°	73.6	73.6	68.6	67.8	67.8
85°	40.5	40.5	41.4	40.5	39.7
87.5°	17.4	17.4	18.2	18.2	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)