

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: P393330

Luminaire Tested: **22EN-LD2-34-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-34-UNV-L92765-W2A-1-U (2700K)
Description: 2X2 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2573.5 lumens
Efficiency: N/A
Efficacy: 101.3 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

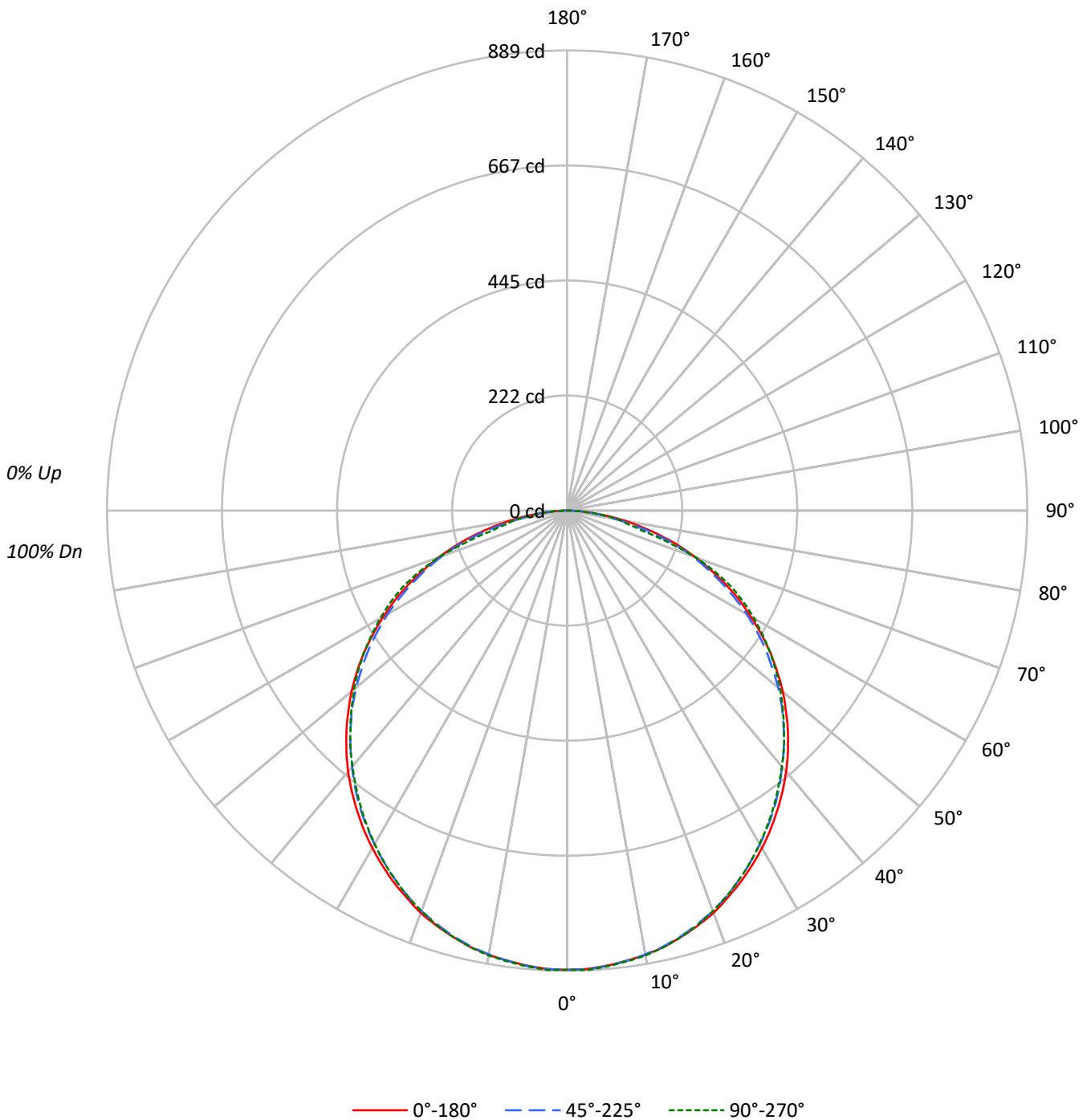
Input Watts (W): 25.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2387	2387	2387
5°	2384	2386	2388
10°	2381	2379	2385
15°	2375	2371	2375
20°	2369	2358	2358
25°	2353	2335	2335
30°	2339	2313	2311
35°	2325	2295	2288
40°	2312	2270	2267
45°	2296	2251	2253
50°	2278	2228	2250
55°	2250	2197	2246
60°	2206	2157	2246
65°	2155	2093	2236
70°	2072	2025	2072
75°	1943	1834	1569
80°	1745	1466	1570
85°	1297	1321	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.3
10°-20°	240.3	9.3
20°-30°	363.1	14.1
30°-40°	438.0	17.0
40°-50°	458.7	17.8
50°-60°	422.9	16.4
60°-70°	332.0	12.9
70°-80°	185.2	7.2
80°-90°	49.5	1.9
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°	687.3	26.7
0°-40°	1125.3	43.7
0°-60°	2006.9	78.0
0°-90°	2573.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2573.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	883	882	883	883	884	84
15°	853	851	851	851	853	241
25°	792	790	786	786	786	365
35°	708	705	699	695	696	443
45°	603	599	591	589	592	465
55°	480	474	468	471	479	428
65°	338	333	329	340	351	334
75°	187	183	176	158	151	198
85°	42	40	43	41	42	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.1	887.1	887.1	887.1	887.1
2.5°	886.3	885.6	886.3	887.1	888.6
5°	882.6	881.8	883.3	883.3	884.1
7.5°	877.3	876.6	877.3	878.1	878.8
10°	871.3	870.6	870.6	871.3	872.8
12.5°	863.8	862.3	862.3	862.3	863.8
15°	852.6	851.1	851.1	851.1	852.6
17.5°	840.6	839.1	837.6	837.6	839.1
20°	827.1	824.8	823.3	822.6	823.3
22.5°	809.8	808.3	806.0	804.5	806.0
25°	792.5	789.5	786.5	785.8	786.5
27.5°	773.0	770.0	766.3	764.8	766.3
30°	752.8	749.0	744.5	742.2	743.7
32.5°	731.0	728.0	722.0	719.7	720.5
35°	707.7	704.7	698.7	695.0	696.5
37.5°	683.7	680.0	673.2	669.4	671.0
40°	658.2	653.7	646.2	643.2	645.4
42.5°	631.2	627.4	619.9	616.9	619.9
45°	603.4	598.9	591.4	589.1	592.1
47.5°	573.4	570.4	562.9	562.1	565.1
50°	544.1	538.9	532.1	532.9	537.4
52.5°	511.8	507.3	499.8	502.8	508.8
55°	479.6	474.3	468.3	471.3	478.8
57.5°	445.0	441.3	434.5	439.0	448.1
60°	409.8	406.8	400.8	408.3	417.3
62.5°	375.3	370.0	364.7	374.5	385.0
65°	338.5	333.2	328.7	340.0	351.2
67.5°	300.2	296.4	292.7	301.7	309.2
70°	263.4	259.7	257.4	258.9	263.4
72.5°	225.9	222.1	219.9	211.6	206.4
75°	186.9	183.1	176.4	158.4	150.9
77.5°	148.6	146.3	132.8	117.1	119.3
80°	112.6	108.8	94.6	97.6	101.3
82.5°	76.6	72.8	71.3	69.0	69.8
85°	42.0	40.5	42.8	41.3	42.0
87.5°	16.5	17.3	18.8	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)