

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: P393028

Luminaire Tested: **14EN-LD2-28-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-51)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-28-UNV-L82765-W2A-1-U (3500K)
Description: 1X4 ENCOUNTER, 2800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2648.9 lumens
Efficiency: N/A
Efficacy: 92.0 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

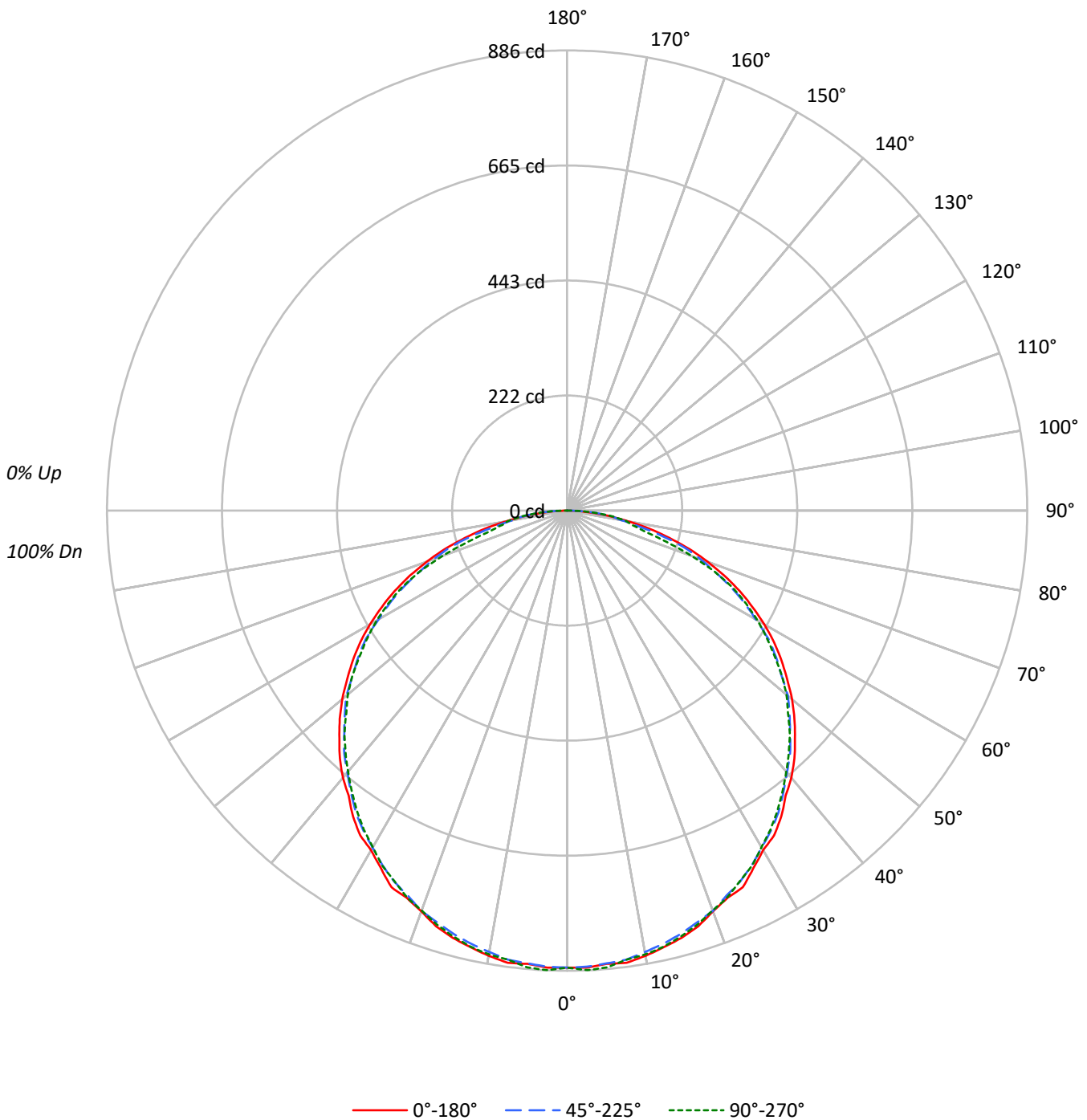
Input Watts (W): 28.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	61	68	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
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°	2368	2368	2368
5°	2367	2364	2384
10°	2378	2358	2371
15°	2372	2351	2364
20°	2351	2349	2346
25°	2376	2340	2337
30°	2346	2328	2325
35°	2362	2330	2318
40°	2359	2312	2306
45°	2361	2310	2307
50°	2367	2323	2308
55°	2364	2302	2284
60°	2360	2258	2279
65°	2334	2213	2243
70°	2258	2146	2005
75°	2117	1980	1595
80°	1849	1629	1776
85°	1405	1785	1785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	3.2
10°-20°	239.1	9.0
20°-30°	364.1	13.7
30°-40°	444.0	16.8
40°-50°	471.1	17.8
50°-60°	441.0	16.6
60°-70°	348.5	13.2
70°-80°	197.2	7.4
80°-90°	60.5	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°	686.7	25.9
0°-40°	1130.7	42.7
0°-60°	2042.8	77.1
0°-90°	2648.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2648.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	876	877	875	881	883	84
15°	852	845	844	849	849	240
25°	800	792	788	786	787	366
35°	719	718	709	702	706	449
45°	620	618	607	604	606	479
55°	504	501	491	491	487	450
65°	366	362	348	352	352	361
75°	204	198	190	166	153	216
85°	46	49	58	58	58	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.9	879.9	879.9	879.9	879.9
2.5°	880.8	881.8	878.9	879.9	885.6
5°	876.1	877.0	875.1	880.8	882.7
7.5°	878.0	873.2	872.3	874.2	872.3
10°	870.4	869.5	862.8	864.7	867.6
12.5°	860.9	859.0	854.3	859.0	860.0
15°	851.5	844.8	843.9	848.6	848.6
17.5°	839.1	839.1	831.6	831.6	835.4
20°	821.1	824.0	820.2	820.2	819.3
22.5°	806.9	805.0	802.2	809.8	806.0
25°	800.3	791.8	788.0	786.1	787.1
27.5°	776.6	778.5	770.0	766.2	771.0
30°	754.9	753.9	749.2	751.1	748.2
32.5°	741.6	733.1	730.2	728.3	728.3
35°	718.9	717.9	709.4	701.8	705.6
37.5°	691.4	691.4	683.8	681.9	681.0
40°	671.5	664.9	658.2	659.2	656.4
42.5°	647.8	643.1	635.5	627.9	631.7
45°	620.4	617.5	607.1	604.3	606.2
47.5°	593.8	587.2	580.6	580.6	576.8
50°	565.4	559.7	555.0	549.3	551.2
52.5°	534.2	533.2	520.0	517.1	520.9
55°	503.9	501.0	490.6	490.6	486.8
57.5°	472.6	467.9	459.4	456.5	455.6
60°	438.5	432.8	419.6	416.7	423.4
62.5°	402.5	396.8	384.5	385.5	388.3
65°	366.5	361.8	347.6	352.3	352.3
67.5°	327.7	320.1	307.8	309.7	306.9
70°	287.0	282.2	272.8	262.4	254.8
72.5°	247.2	241.5	236.8	212.2	199.8
75°	203.6	197.9	190.4	165.7	153.4
77.5°	163.9	159.1	142.1	125.0	127.9
80°	119.3	125.0	105.1	111.8	114.6
82.5°	81.5	82.4	86.2	90.9	89.0
85°	45.5	49.3	57.8	57.8	57.8
87.5°	17.0	24.6	25.6	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)