

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: P393029

Luminaire Tested: **14EN-LD2-28-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393029
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 (4000K)
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: 2612.7 lumens
Efficiency: N/A
Efficacy: 90.7 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

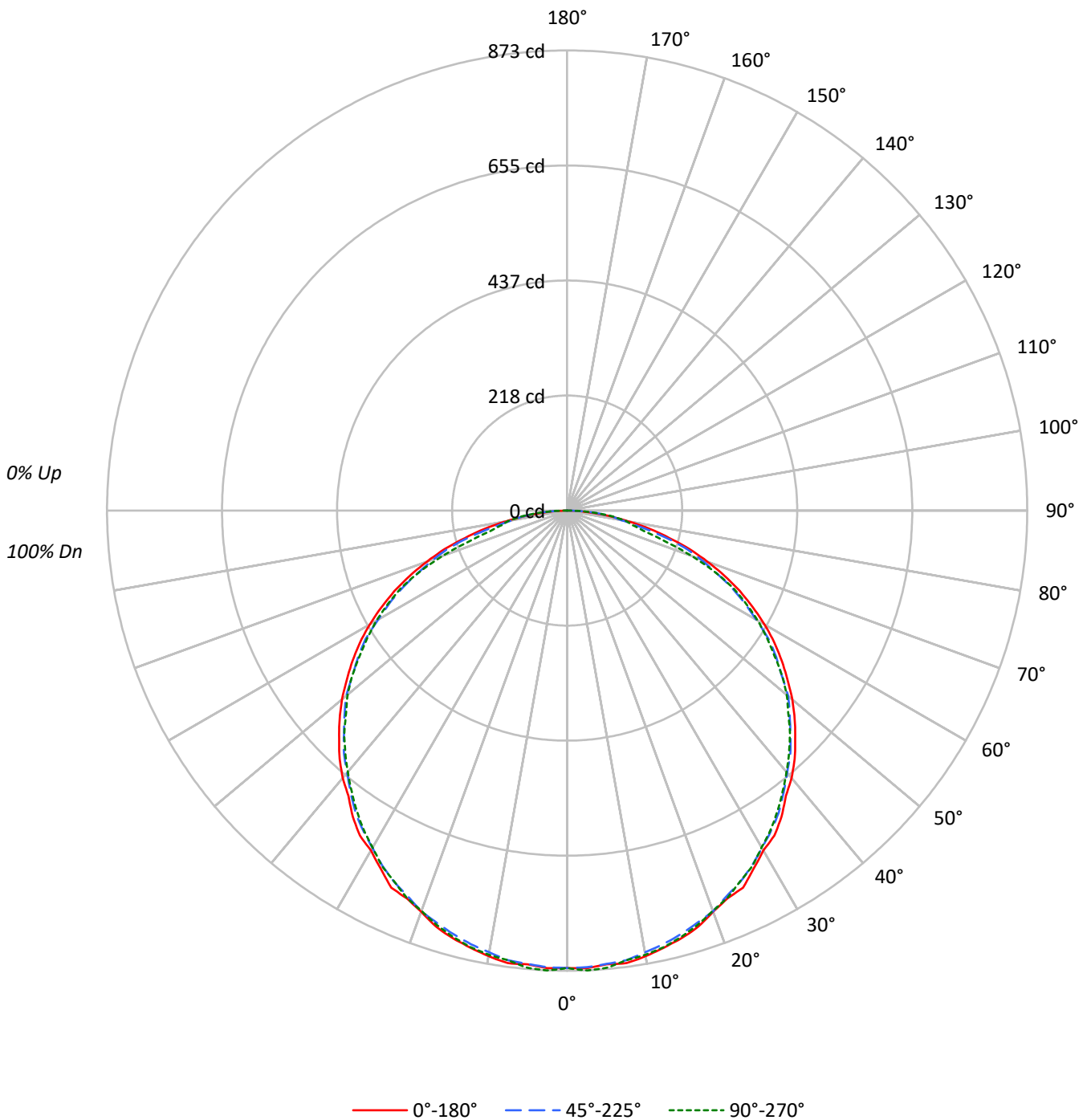
Input Watts (W): 28.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2335	2335	2335
5°	2334	2332	2352
10°	2346	2325	2338
15°	2340	2319	2332
20°	2319	2317	2314
25°	2344	2308	2305
30°	2313	2296	2293
35°	2329	2299	2286
40°	2327	2281	2274
45°	2329	2279	2275
50°	2335	2292	2276
55°	2332	2270	2253
60°	2328	2227	2248
65°	2302	2183	2213
70°	2227	2116	1977
75°	2088	1953	1573
80°	1824	1607	1751
85°	1383	1760	1760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	3.2
10°-20°	235.9	9.0
20°-30°	359.1	13.7
30°-40°	437.9	16.8
40°-50°	464.7	17.8
50°-60°	435.0	16.6
60°-70°	343.7	13.2
70°-80°	194.5	7.4
80°-90°	59.7	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°	677.3	25.9
0°-40°	1115.2	42.7
0°-60°	2014.8	77.1
0°-90°	2612.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	864	865	863	869	871	83
15°	840	833	832	837	837	237
25°	789	781	777	775	776	361
35°	709	708	700	692	696	443
45°	612	609	599	596	598	473
55°	497	494	484	484	480	444
65°	362	357	343	348	348	356
75°	201	195	188	164	151	213
85°	45	49	57	57	57	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.8	867.8	867.8	867.8	867.8
2.5°	868.8	869.7	866.9	867.8	873.4
5°	864.1	865.0	863.2	868.8	870.6
7.5°	866.0	861.3	860.3	862.2	860.3
10°	858.5	857.5	851.0	852.9	855.7
12.5°	849.1	847.3	842.6	847.3	848.2
15°	839.8	833.3	832.3	837.0	837.0
17.5°	827.7	827.7	820.2	820.2	823.9
20°	809.9	812.7	809.0	809.0	808.0
22.5°	795.9	794.0	791.2	798.7	795.0
25°	789.4	780.9	777.2	775.3	776.3
27.5°	766.0	767.9	759.5	755.7	760.4
30°	744.5	743.6	738.9	740.8	738.0
32.5°	731.4	723.0	720.2	718.4	718.4
35°	709.0	708.1	699.7	692.2	695.9
37.5°	681.9	681.9	674.5	672.6	671.7
40°	662.3	655.8	649.2	650.2	647.4
42.5°	639.0	634.3	626.8	619.3	623.1
45°	611.9	609.1	598.8	596.0	597.9
47.5°	585.7	579.2	572.6	572.6	568.9
50°	557.7	552.1	547.4	541.8	543.7
52.5°	526.9	525.9	512.8	510.0	513.8
55°	497.0	494.2	483.9	483.9	480.2
57.5°	466.1	461.5	453.1	450.3	449.3
60°	432.5	426.9	413.8	411.0	417.6
62.5°	397.0	391.4	379.3	380.2	383.0
65°	361.5	356.8	342.8	347.5	347.5
67.5°	323.2	315.7	303.6	305.5	302.7
70°	283.0	278.4	269.0	258.8	251.3
72.5°	243.8	238.2	233.5	209.2	197.1
75°	200.8	195.2	187.8	163.5	151.3
77.5°	161.6	156.9	140.1	123.3	126.1
80°	117.7	123.3	103.7	110.2	113.0
82.5°	80.3	81.3	85.0	89.7	87.8
85°	44.8	48.6	57.0	57.0	57.0
87.5°	16.8	24.3	25.2	26.2	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)