

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: P393027

Luminaire Tested: **14EN-LD2-28-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393027
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 (3000K)
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: 2565.4 lumens
Efficiency: N/A
Efficacy: 89.1 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

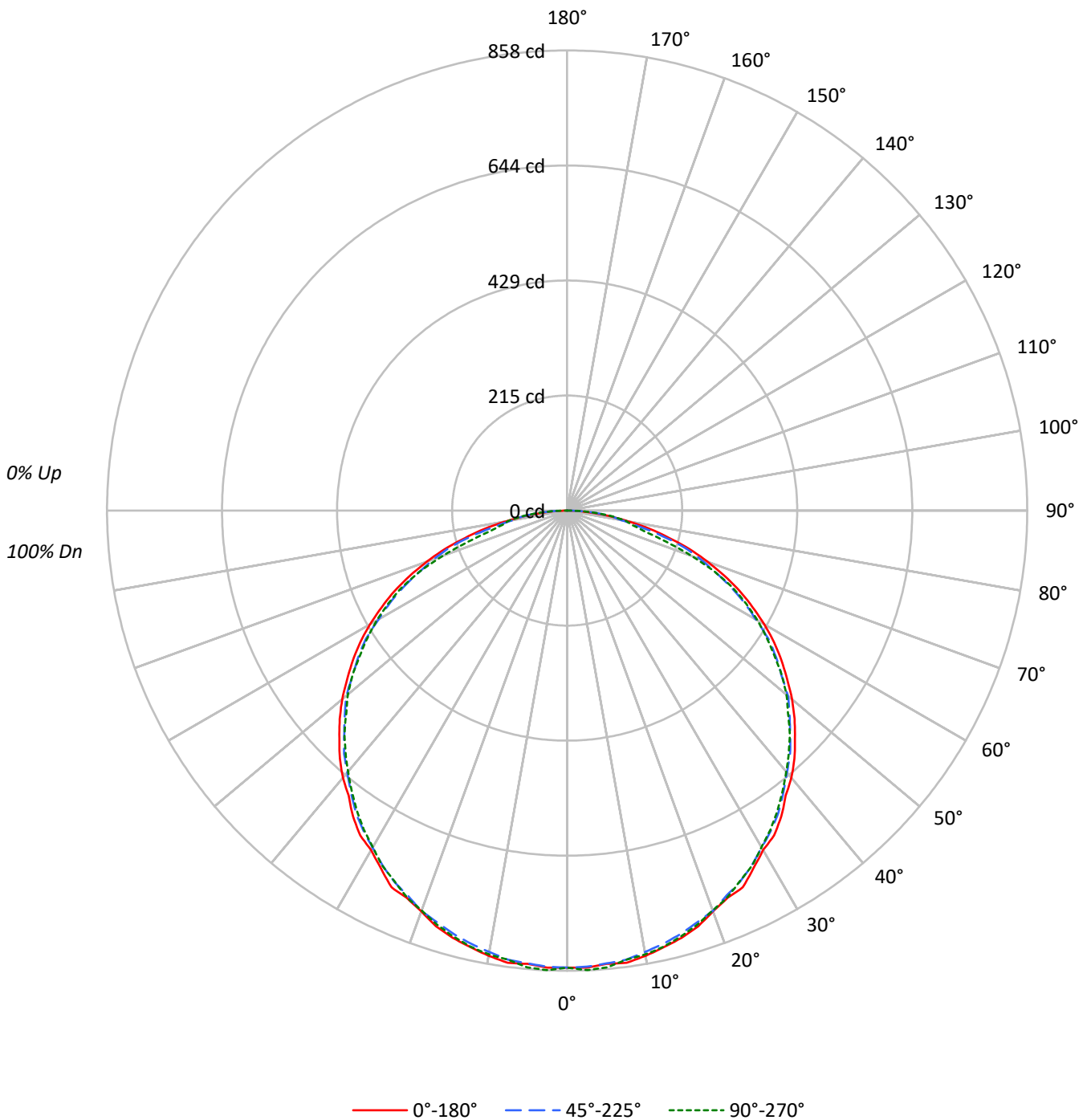
Input Watts (W): 28.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49					49			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42					42			
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36					36			
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29					29			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26					26			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2293	2293	2293
5°	2292	2289	2309
10°	2303	2283	2296
15°	2297	2277	2289
20°	2277	2275	2272
25°	2301	2266	2263
30°	2271	2254	2252
35°	2287	2257	2245
40°	2284	2239	2233
45°	2286	2237	2234
50°	2292	2250	2235
55°	2289	2229	2212
60°	2286	2187	2207
65°	2260	2143	2173
70°	2186	2079	1941
75°	2050	1917	1545
80°	1791	1578	1720
85°	1359	1729	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.2
10°-20°	231.6	9.0
20°-30°	352.6	13.7
30°-40°	430.0	16.8
40°-50°	456.3	17.8
50°-60°	427.1	16.6
60°-70°	337.5	13.2
70°-80°	191.0	7.4
80°-90°	58.6	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°	665.0	25.9
0°-40°	1095.0	42.7
0°-60°	1978.3	77.1
0°-90°	2565.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2565.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	848	849	848	853	855	81
15°	825	818	817	822	822	233
25°	775	767	763	761	762	355
35°	696	695	687	680	683	435
45°	601	598	588	585	587	464
55°	488	485	475	475	472	436
65°	355	350	337	341	341	350
75°	197	192	184	160	149	209
85°	44	48	56	56	56	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	852.1	852.1	852.1	852.1	852.1
2.5°	853.0	853.9	851.2	852.1	857.6
5°	848.4	849.3	847.5	853.0	854.8
7.5°	850.3	845.7	844.8	846.6	844.8
10°	842.9	842.0	835.6	837.4	840.2
12.5°	833.8	831.9	827.3	831.9	832.8
15°	824.6	818.2	817.2	821.8	821.8
17.5°	812.7	812.7	805.3	805.3	809.0
20°	795.2	798.0	794.3	794.3	793.4
22.5°	781.5	779.6	776.9	784.2	780.6
25°	775.1	766.8	763.1	761.3	762.2
27.5°	752.1	754.0	745.7	742.0	746.6
30°	731.0	730.1	725.5	727.4	724.6
32.5°	718.2	709.9	707.2	705.3	705.3
35°	696.2	695.3	687.0	679.7	683.3
37.5°	669.6	669.6	662.2	660.4	659.5
40°	650.3	643.9	637.5	638.4	635.6
42.5°	627.4	622.8	615.5	608.1	611.8
45°	600.8	598.0	587.9	585.2	587.0
47.5°	575.1	568.7	562.3	562.3	558.6
50°	547.6	542.1	537.5	532.0	533.8
52.5°	517.3	516.4	503.6	500.8	504.5
55°	488.0	485.2	475.1	475.1	471.5
57.5°	457.7	453.1	444.9	442.1	441.2
60°	424.7	419.2	406.3	403.6	410.0
62.5°	389.8	384.3	372.4	373.3	376.1
65°	355.0	350.4	336.6	341.2	341.2
67.5°	317.4	310.0	298.1	299.9	297.2
70°	277.9	273.3	264.2	254.1	246.7
72.5°	239.4	233.9	229.3	205.5	193.5
75°	197.2	191.7	184.4	160.5	148.6
77.5°	158.7	154.1	137.6	121.1	123.8
80°	115.6	121.1	101.8	108.2	111.0
82.5°	78.9	79.8	83.5	88.1	86.2
85°	44.0	47.7	56.0	56.0	56.0
87.5°	16.5	23.8	24.8	25.7	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)