

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: P393055

Luminaire Tested: **14EN-LD2-28-UNV-L93050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393055
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-L93050-W2A-1-U (5000K)
Description: 1X4 ENCOUNTER, 2800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2467.3 lumens
Efficiency: N/A
Efficacy: 87.2 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

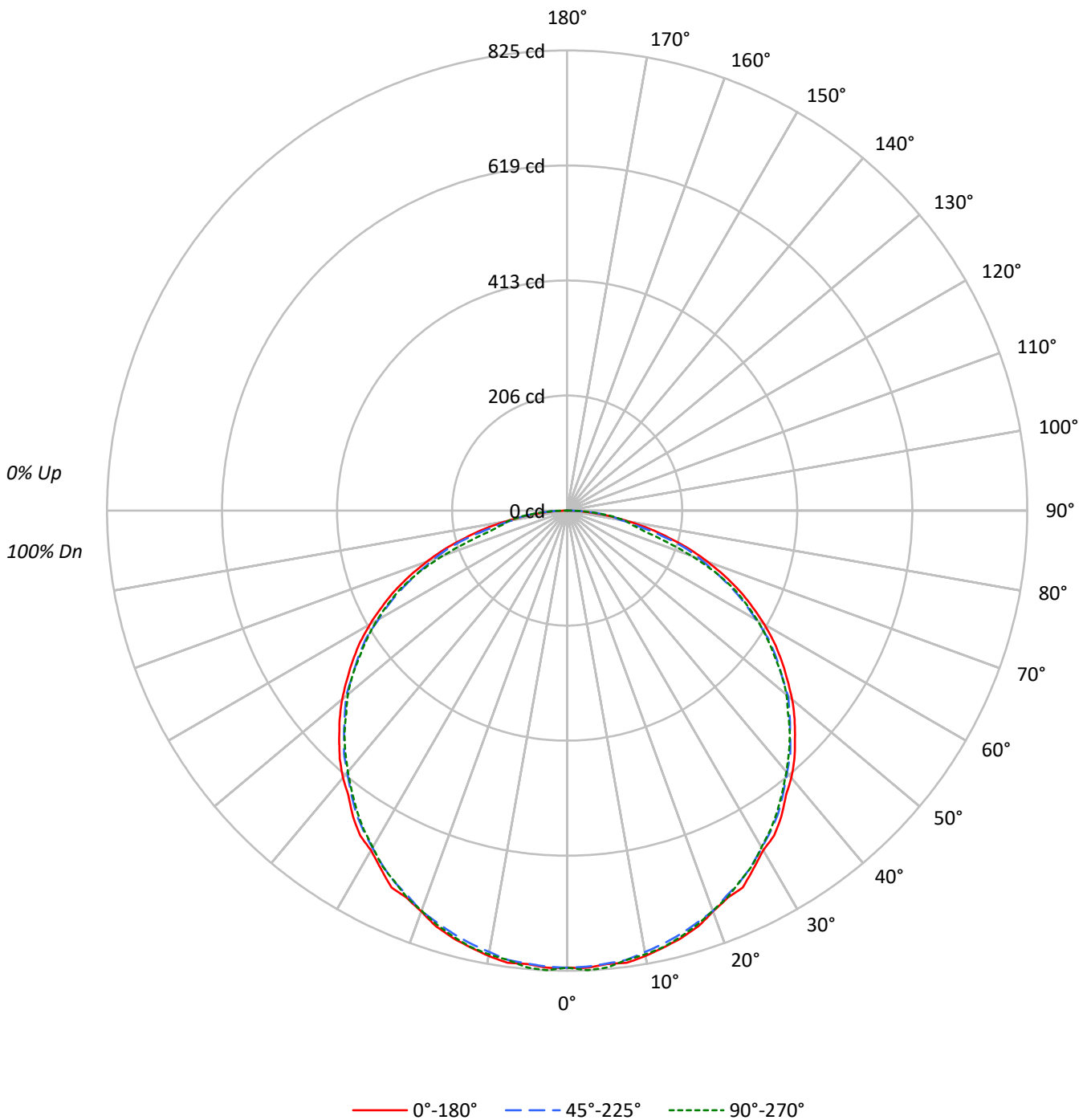
Input Watts (W): 28.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2205	2205	2205
5°	2204	2202	2221
10°	2215	2196	2208
15°	2210	2190	2202
20°	2190	2188	2185
25°	2213	2179	2177
30°	2185	2168	2165
35°	2200	2170	2159
40°	2197	2154	2147
45°	2199	2152	2149
50°	2205	2164	2149
55°	2202	2144	2127
60°	2198	2103	2122
65°	2174	2061	2090
70°	2103	1999	1867
75°	1972	1843	1486
80°	1723	1517	1654
85°	1306	1661	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.2
10°-20°	222.7	9.0
20°-30°	339.1	13.7
30°-40°	413.6	16.8
40°-50°	438.8	17.8
50°-60°	410.8	16.6
60°-70°	324.6	13.2
70°-80°	183.7	7.4
80°-90°	56.3	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°	639.6	25.9
0°-40°	1053.1	42.7
0°-60°	1902.7	77.1
0°-90°	2467.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2467.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	816	817	815	820	822	78
15°	793	787	786	790	790	224
25°	745	738	734	732	733	341
35°	670	669	661	654	657	418
45°	578	575	566	563	565	446
55°	469	467	457	457	453	419
65°	341	337	324	328	328	336
75°	190	184	177	154	143	201
85°	42	46	54	54	54	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	819.5	819.5	819.5	819.5	819.5
2.5°	820.4	821.3	818.6	819.5	824.8
5°	816.0	816.9	815.1	820.4	822.2
7.5°	817.8	813.3	812.5	814.2	812.5
10°	810.7	809.8	803.6	805.4	808.0
12.5°	801.9	800.1	795.7	800.1	801.0
15°	793.1	786.9	786.0	790.4	790.4
17.5°	781.6	781.6	774.5	774.5	778.1
20°	764.8	767.5	763.9	763.9	763.1
22.5°	751.6	749.8	747.2	754.2	750.7
25°	745.4	737.5	733.9	732.2	733.1
27.5°	723.4	725.1	717.2	713.7	718.1
30°	703.1	702.2	697.8	699.5	696.9
32.5°	690.7	682.8	680.1	678.4	678.4
35°	669.6	668.7	660.7	653.7	657.2
37.5°	644.0	644.0	636.9	635.1	634.3
40°	625.4	619.3	613.1	614.0	611.3
42.5°	603.4	599.0	591.9	584.9	588.4
45°	577.8	575.2	565.5	562.8	564.6
47.5°	553.1	546.9	540.8	540.8	537.2
50°	526.6	521.4	516.9	511.6	513.4
52.5°	497.5	496.7	484.3	481.7	485.2
55°	469.3	466.7	457.0	457.0	453.4
57.5°	440.2	435.8	427.8	425.2	424.3
60°	408.4	403.1	390.8	388.1	394.3
62.5°	374.9	369.6	358.2	359.0	361.7
65°	341.4	337.0	323.7	328.2	328.2
67.5°	305.2	298.2	286.7	288.5	285.8
70°	267.3	262.9	254.1	244.4	237.3
72.5°	230.2	224.9	220.5	197.6	186.1
75°	189.7	184.4	177.3	154.4	142.9
77.5°	152.6	148.2	132.3	116.4	119.1
80°	111.2	116.4	97.9	104.1	106.7
82.5°	75.9	76.7	80.3	84.7	82.9
85°	42.3	45.9	53.8	53.8	53.8
87.5°	15.9	22.9	23.8	24.7	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)