

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: P393026

Luminaire Tested: **14EN-LD2-28-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393026
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 (2700K)
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: 2540.7 lumens
Efficiency: N/A
Efficacy: 88.2 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

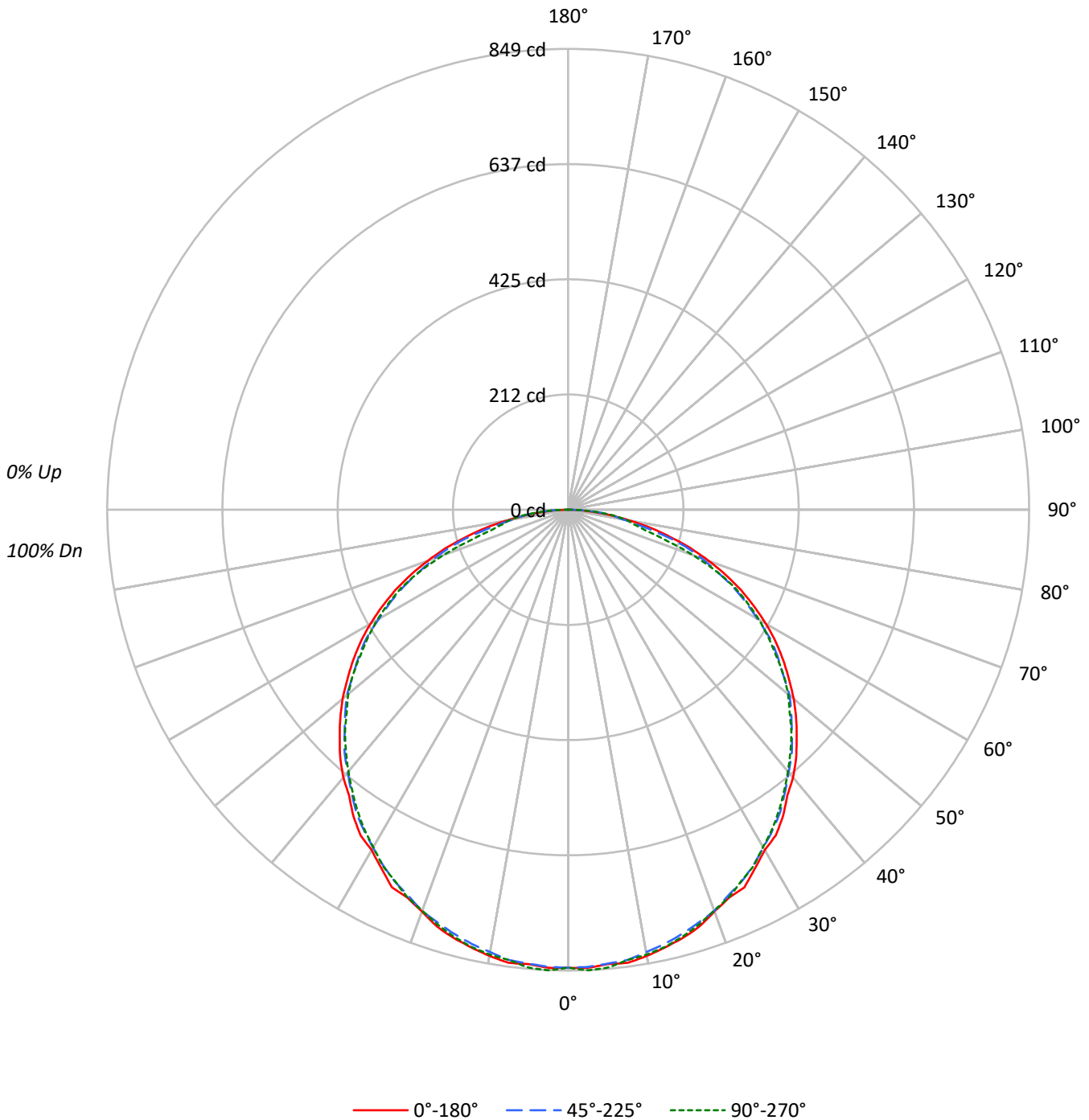
Input Watts (W): 28.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2271	2271	2271
5°	2270	2267	2287
10°	2281	2261	2274
15°	2275	2255	2268
20°	2255	2253	2250
25°	2279	2244	2241
30°	2250	2233	2230
35°	2265	2235	2223
40°	2263	2218	2211
45°	2264	2216	2213
50°	2270	2228	2213
55°	2267	2208	2190
60°	2264	2166	2186
65°	2239	2123	2152
70°	2166	2058	1923
75°	2031	1899	1530
80°	1774	1562	1703
85°	1346	1711	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	3.2
10°-20°	229.4	9.0
20°-30°	349.2	13.7
30°-40°	425.9	16.8
40°-50°	451.9	17.8
50°-60°	423.0	16.6
60°-70°	334.2	13.2
70°-80°	189.2	7.4
80°-90°	58.0	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°	658.6	25.9
0°-40°	1084.5	42.7
0°-60°	1959.4	77.1
0°-90°	2540.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2540.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	840	841	839	845	847	80
15°	817	810	809	814	814	230
25°	768	759	756	754	755	351
35°	690	689	680	673	677	431
45°	595	592	582	580	581	460
55°	483	481	471	471	467	432
65°	352	347	333	338	338	346
75°	195	190	183	159	147	207
85°	44	47	55	55	55	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	843.9	843.9	843.9	843.9	843.9
2.5°	844.8	845.7	843.0	843.9	849.4
5°	840.3	841.2	839.4	844.8	846.7
7.5°	842.1	837.6	836.7	838.5	836.7
10°	834.8	833.9	827.6	829.4	832.1
12.5°	825.8	823.9	819.4	823.9	824.9
15°	816.7	810.3	809.4	814.0	814.0
17.5°	804.9	804.9	797.6	797.6	801.2
20°	787.6	790.3	786.7	786.7	785.8
22.5°	774.0	772.2	769.4	776.7	773.1
25°	767.6	759.4	755.8	754.0	754.9
27.5°	744.9	746.7	738.6	734.9	739.5
30°	724.0	723.1	718.6	720.4	717.7
32.5°	711.3	703.1	700.4	698.6	698.6
35°	689.5	688.6	680.4	673.1	676.8
37.5°	663.2	663.2	655.9	654.1	653.2
40°	644.1	637.7	631.4	632.3	629.5
42.5°	621.4	616.8	609.6	602.3	605.9
45°	595.0	592.3	582.3	579.6	581.4
47.5°	569.6	563.2	556.9	556.9	553.2
50°	542.3	536.9	532.3	526.9	528.7
52.5°	512.4	511.4	498.7	496.0	499.6
55°	483.3	480.6	470.6	470.6	466.9
57.5°	453.3	448.8	440.6	437.9	437.0
60°	420.6	415.2	402.4	399.7	406.1
62.5°	386.1	380.6	368.8	369.7	372.5
65°	351.6	347.0	333.4	337.9	337.9
67.5°	314.3	307.0	295.2	297.1	294.3
70°	275.3	270.7	261.6	251.6	244.4
72.5°	237.1	231.7	227.1	203.5	191.7
75°	195.3	189.9	182.6	159.0	147.2
77.5°	157.2	152.6	136.3	119.9	122.6
80°	114.5	119.9	100.8	107.2	109.9
82.5°	78.1	79.0	82.7	87.2	85.4
85°	43.6	47.2	55.4	55.4	55.4
87.5°	16.4	23.6	24.5	25.4	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)