

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: P393003

Luminaire Tested: **14EN-LD2-25-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-50)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-25-UNV-L83050-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2516.8 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

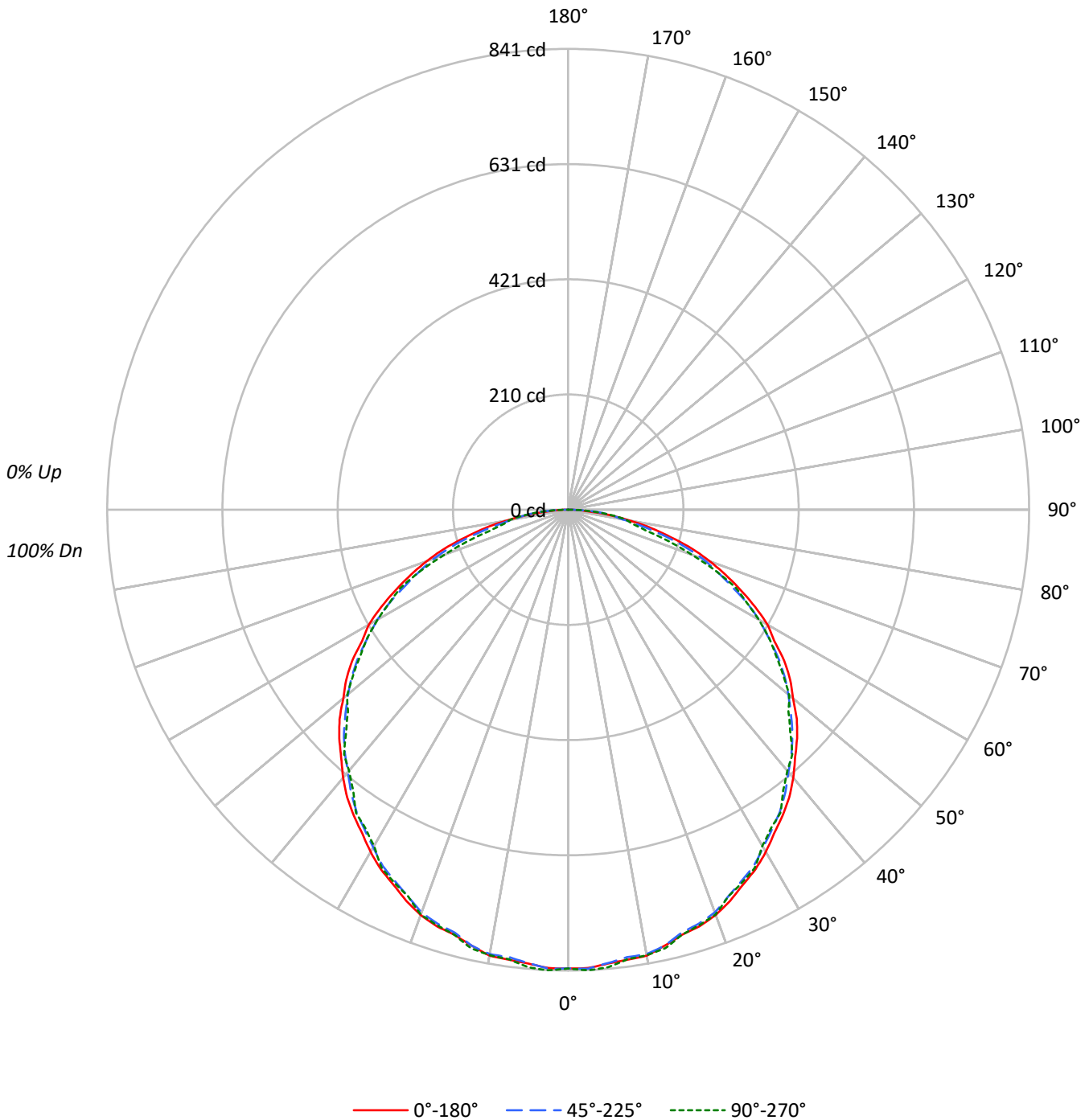
Input Watts (W): 26.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	40	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°	2253	2253	2253
5°	2246	2243	2264
10°	2258	2250	2256
15°	2237	2226	2237
20°	2254	2240	2251
25°	2241	2220	2229
30°	2241	2211	2201
35°	2240	2211	2217
40°	2243	2195	2185
45°	2247	2202	2179
50°	2241	2195	2204
55°	2258	2188	2170
60°	2261	2166	2161
65°	2211	2087	2149
70°	2160	2051	1889
75°	2015	1852	1524
80°	1784	1540	1677
85°	1275	1732	1670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	3.1
10°-20°	227.5	9.0
20°-30°	346.4	13.8
30°-40°	421.6	16.8
40°-50°	447.7	17.8
50°-60°	418.9	16.6
60°-70°	331.2	13.2
70°-80°	187.1	7.4
80°-90°	57.2	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°	653.1	25.9
0°-40°	1074.7	42.7
0°-60°	1941.3	77.1
0°-90°	2516.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2516.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	831	831	830	834	838	79
15°	803	806	799	807	803	228
25°	755	756	748	749	751	349
35°	682	681	673	668	675	427
45°	590	585	579	577	573	455
55°	481	474	466	462	462	429
65°	347	340	328	332	338	344
75°	194	189	178	157	147	206
85°	41	46	56	56	54	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	837.3	837.3	837.3	837.3	837.3
2.5°	837.3	839.3	838.3	835.4	841.3
5°	831.4	831.4	830.5	834.4	838.3
7.5°	828.5	829.5	823.6	831.4	827.5
10°	826.5	828.5	823.6	822.6	825.5
12.5°	814.7	813.7	814.7	814.7	819.6
15°	802.9	805.9	799.0	806.8	802.9
17.5°	797.0	800.9	792.1	793.1	795.0
20°	787.2	783.2	782.2	779.3	786.2
22.5°	772.4	766.5	763.5	767.5	763.5
25°	754.7	755.7	747.8	748.8	750.8
27.5°	739.9	738.9	733.0	731.1	737.0
30°	721.2	715.3	711.4	712.4	708.4
32.5°	699.6	698.6	691.7	690.7	688.8
35°	681.9	680.9	673.0	668.1	675.0
37.5°	662.2	655.3	650.4	647.4	644.5
40°	638.6	634.6	624.8	622.8	621.9
42.5°	613.0	613.0	603.2	597.3	605.1
45°	590.4	585.4	578.6	576.6	572.7
47.5°	565.8	560.8	551.0	548.1	545.1
50°	535.3	535.3	524.4	520.5	526.4
52.5°	510.7	505.7	496.9	494.9	493.9
55°	481.2	474.3	466.4	462.5	462.5
57.5°	445.7	443.8	432.9	430.0	433.9
60°	420.1	412.3	402.4	399.5	401.5
62.5°	384.7	377.8	367.0	365.0	367.0
65°	347.3	340.4	327.7	331.6	337.5
67.5°	310.9	305.0	293.2	296.2	291.2
70°	274.5	268.6	260.7	249.9	240.1
72.5°	237.1	226.3	221.4	200.7	193.8
75°	193.8	188.9	178.1	157.4	146.6
77.5°	155.5	150.5	136.8	119.1	120.0
80°	115.1	119.1	99.4	105.3	108.2
82.5°	76.7	76.7	81.7	85.6	85.6
85°	41.3	46.2	56.1	56.1	54.1
87.5°	15.7	22.6	24.6	24.6	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)