

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: P393005

Luminaire Tested: **14EN-LD2-25-UNV-L83050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393005
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 (4000K)
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: 2568.8 lumens
Efficiency: N/A
Efficacy: 97.3 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

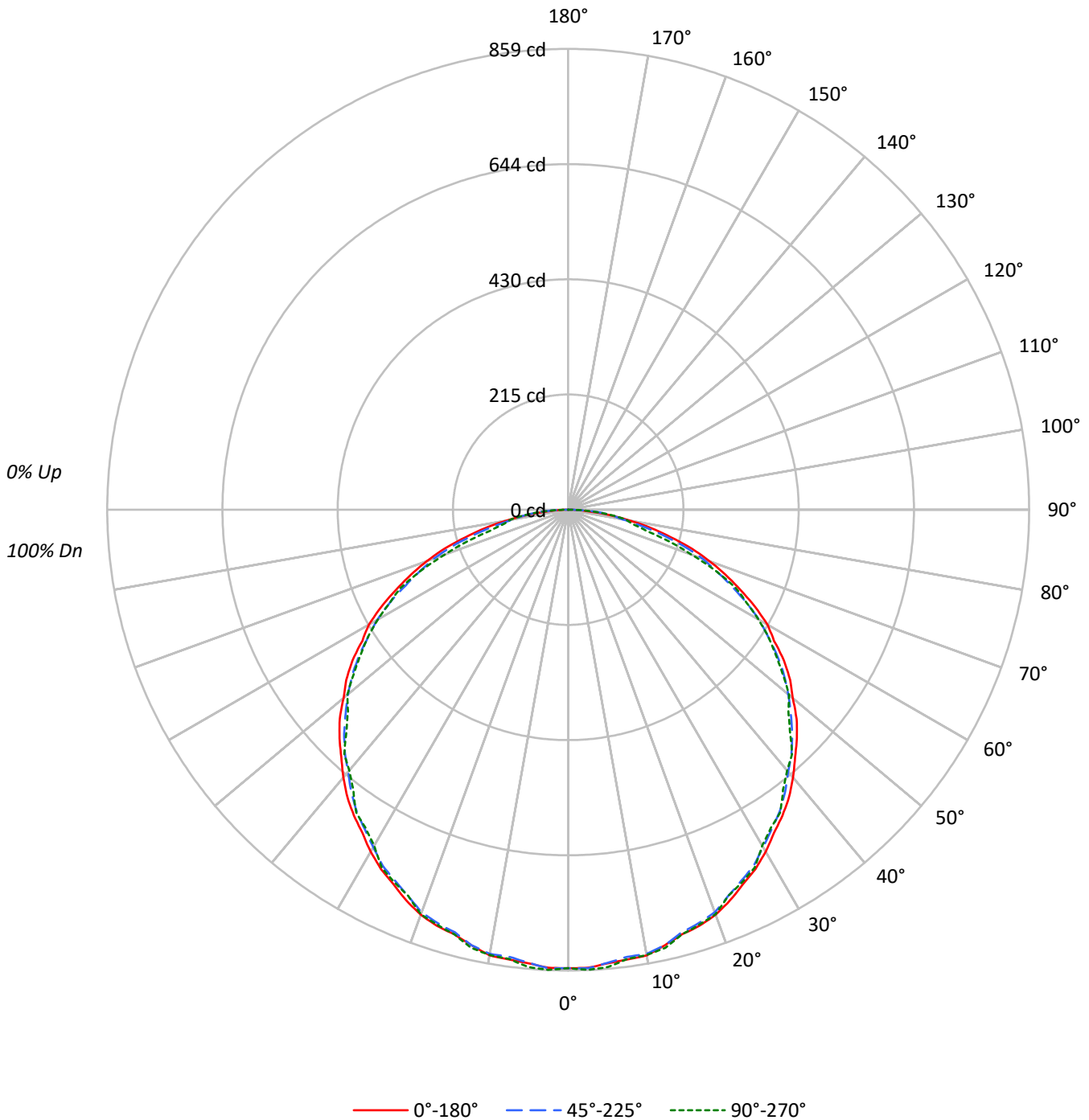
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	40	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°	2300	2300	2300
5°	2292	2290	2311
10°	2305	2297	2302
15°	2283	2272	2283
20°	2301	2286	2298
25°	2287	2266	2275
30°	2287	2256	2247
35°	2286	2257	2263
40°	2290	2240	2230
45°	2293	2247	2224
50°	2287	2241	2249
55°	2304	2233	2214
60°	2308	2210	2205
65°	2257	2129	2194
70°	2205	2094	1928
75°	2057	1890	1555
80°	1821	1571	1712
85°	1303	1766	1704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.1
10°-20°	232.2	9.0
20°-30°	353.5	13.8
30°-40°	430.3	16.8
40°-50°	456.9	17.8
50°-60°	427.5	16.6
60°-70°	338.1	13.2
70°-80°	191.0	7.4
80°-90°	58.4	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°	666.6	25.9
0°-40°	1096.9	42.7
0°-60°	1981.4	77.1
0°-90°	2568.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2568.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	849	849	848	852	856	81
15°	820	822	816	824	820	232
25°	770	771	763	764	766	356
35°	696	695	687	682	689	436
45°	603	598	590	588	584	464
55°	491	484	476	472	472	437
65°	354	348	334	338	344	351
75°	198	193	182	161	150	210
85°	42	47	57	57	55	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.6	854.6	854.6	854.6	854.6
2.5°	854.6	856.6	855.6	852.6	858.6
5°	848.6	848.6	847.6	851.6	855.6
7.5°	845.6	846.6	840.6	848.6	844.6
10°	843.6	845.6	840.6	839.6	842.6
12.5°	831.5	830.5	831.5	831.5	836.5
15°	819.5	822.5	815.5	823.5	819.5
17.5°	813.4	817.5	808.4	809.4	811.4
20°	803.4	799.4	798.4	795.4	802.4
22.5°	788.3	782.3	779.3	783.3	779.3
25°	770.3	771.3	763.2	764.2	766.2
27.5°	755.2	754.2	748.2	746.2	752.2
30°	736.1	730.1	726.1	727.1	723.1
32.5°	714.0	713.0	706.0	705.0	703.0
35°	695.9	694.9	686.9	681.9	688.9
37.5°	675.9	668.8	663.8	660.8	657.8
40°	651.8	647.7	637.7	635.7	634.7
42.5°	625.6	625.6	615.6	609.6	617.6
45°	602.6	597.5	590.5	588.5	584.5
47.5°	577.4	572.4	562.4	559.4	556.4
50°	546.3	546.3	535.3	531.2	537.3
52.5°	521.2	516.2	507.1	505.1	504.1
55°	491.1	484.0	476.0	472.0	472.0
57.5°	454.9	452.9	441.9	438.9	442.9
60°	428.8	420.8	410.7	407.7	409.7
62.5°	392.7	385.6	374.6	372.6	374.6
65°	354.5	347.5	334.4	338.4	344.5
67.5°	317.3	311.3	299.3	302.3	297.3
70°	280.2	274.2	266.1	255.1	245.0
72.5°	242.0	231.0	226.0	204.9	197.8
75°	197.8	192.8	181.8	160.7	149.6
77.5°	158.7	153.7	139.6	121.5	122.5
80°	117.5	121.5	101.4	107.5	110.5
82.5°	78.3	78.3	83.4	87.4	87.4
85°	42.2	47.2	57.2	57.2	55.2
87.5°	16.1	23.1	25.1	25.1	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)