

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: P393002

Luminaire Tested: **14EN-LD2-25-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393002
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 (2700K)
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: 2467.9 lumens
Efficiency: N/A
Efficacy: 94.9 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

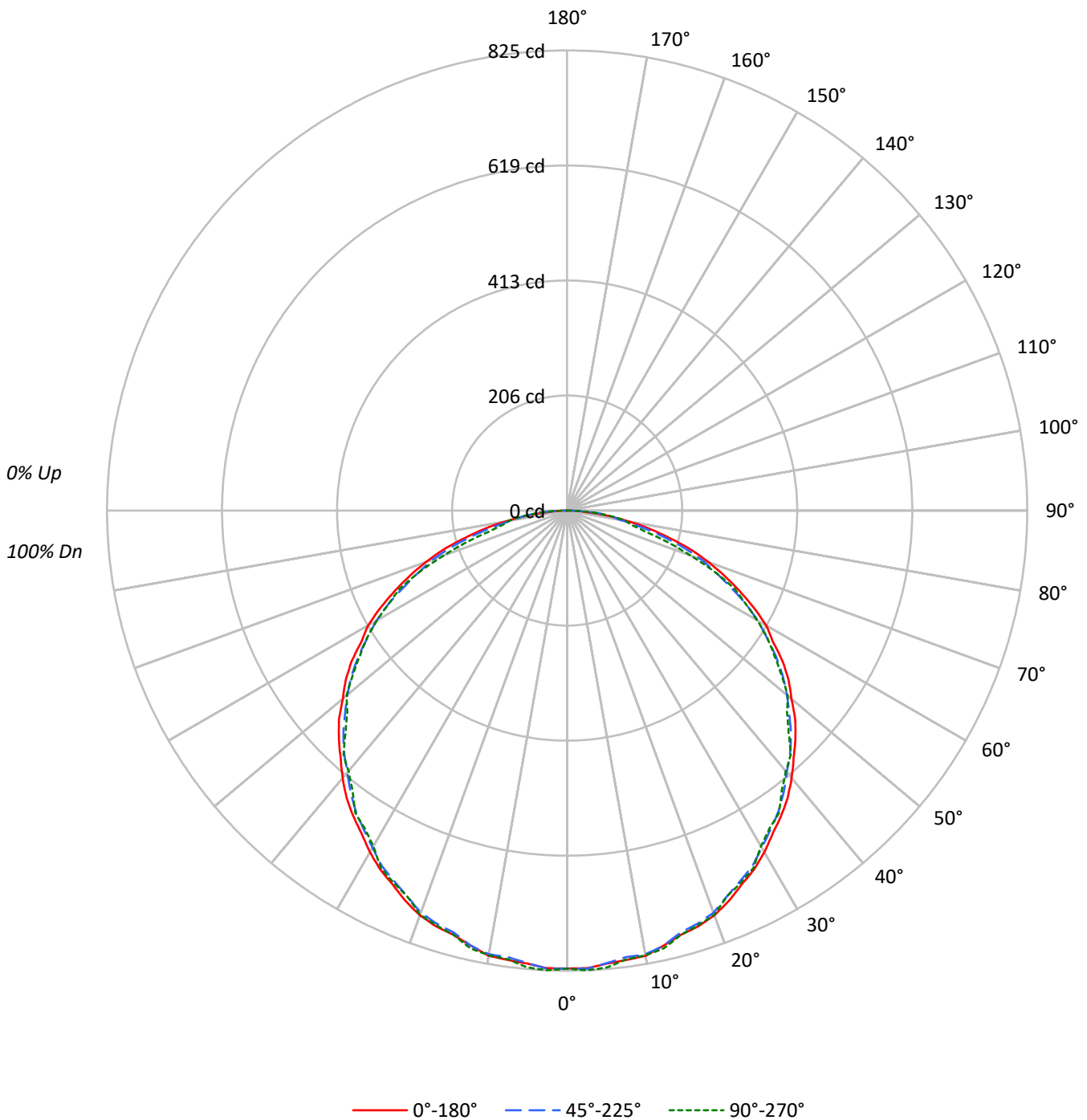
Input Watts (W): 26
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2210	2210	2210
5°	2202	2200	2220
10°	2214	2207	2212
15°	2193	2182	2193
20°	2210	2196	2208
25°	2197	2177	2186
30°	2197	2168	2159
35°	2196	2168	2174
40°	2200	2152	2142
45°	2203	2159	2137
50°	2197	2153	2161
55°	2213	2145	2128
60°	2217	2124	2118
65°	2169	2046	2107
70°	2118	2012	1852
75°	1976	1815	1495
80°	1750	1509	1644
85°	1250	1698	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.1
10°-20°	223.1	9.0
20°-30°	339.7	13.8
30°-40°	413.4	16.8
40°-50°	439.0	17.8
50°-60°	410.7	16.6
60°-70°	324.8	13.2
70°-80°	183.4	7.4
80°-90°	56.1	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°	640.4	25.9
0°-40°	1053.9	42.7
0°-60°	1903.6	77.1
0°-90°	2467.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2467.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	815	815	814	818	822	78
15°	787	790	783	791	787	223
25°	740	741	733	734	736	342
35°	669	668	660	655	662	418
45°	579	574	567	565	562	446
55°	472	465	457	454	454	420
65°	341	334	321	325	331	337
75°	190	185	175	154	144	202
85°	40	45	55	55	53	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.1	821.1	821.1	821.1	821.1
2.5°	821.1	823.0	822.0	819.1	824.9
5°	815.3	815.3	814.3	818.2	822.0
7.5°	812.4	813.3	807.6	815.3	811.4
10°	810.4	812.4	807.6	806.6	809.5
12.5°	798.9	797.9	798.9	798.9	803.7
15°	787.3	790.2	783.4	791.2	787.3
17.5°	781.5	785.4	776.7	777.6	779.6
20°	771.9	768.0	767.0	764.1	770.9
22.5°	757.4	751.6	748.7	752.6	748.7
25°	740.0	741.0	733.3	734.2	736.2
27.5°	725.5	724.6	718.8	716.9	722.7
30°	707.2	701.4	697.6	698.5	694.7
32.5°	686.0	685.0	678.3	677.3	675.4
35°	668.6	667.7	659.9	655.1	661.9
37.5°	649.3	642.6	637.7	634.9	632.0
40°	626.2	622.3	612.7	610.7	609.8
42.5°	601.1	601.1	591.4	585.6	593.4
45°	578.9	574.1	567.3	565.4	561.5
47.5°	554.8	549.9	540.3	537.4	534.5
50°	524.9	524.9	514.2	510.4	516.2
52.5°	500.7	495.9	487.2	485.3	484.3
55°	471.8	465.0	457.3	453.5	453.5
57.5°	437.1	435.1	424.5	421.6	425.5
60°	412.0	404.3	394.6	391.7	393.6
62.5°	377.2	370.5	359.9	357.9	359.9
65°	340.6	333.8	321.3	325.1	330.9
67.5°	304.9	299.1	287.5	290.4	285.6
70°	269.2	263.4	255.7	245.1	235.4
72.5°	232.5	221.9	217.1	196.8	190.1
75°	190.1	185.2	174.6	154.4	143.8
77.5°	152.4	147.6	134.1	116.7	117.7
80°	112.9	116.7	97.4	103.2	106.1
82.5°	75.3	75.3	80.1	83.9	83.9
85°	40.5	45.3	55.0	55.0	53.1
87.5°	15.4	22.2	24.1	24.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)