

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: P393006

Luminaire Tested: **14EN-LD2-25-UNV-L83050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393006
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 (4500K)
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: 2603.5 lumens
Efficiency: N/A
Efficacy: 99.4 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

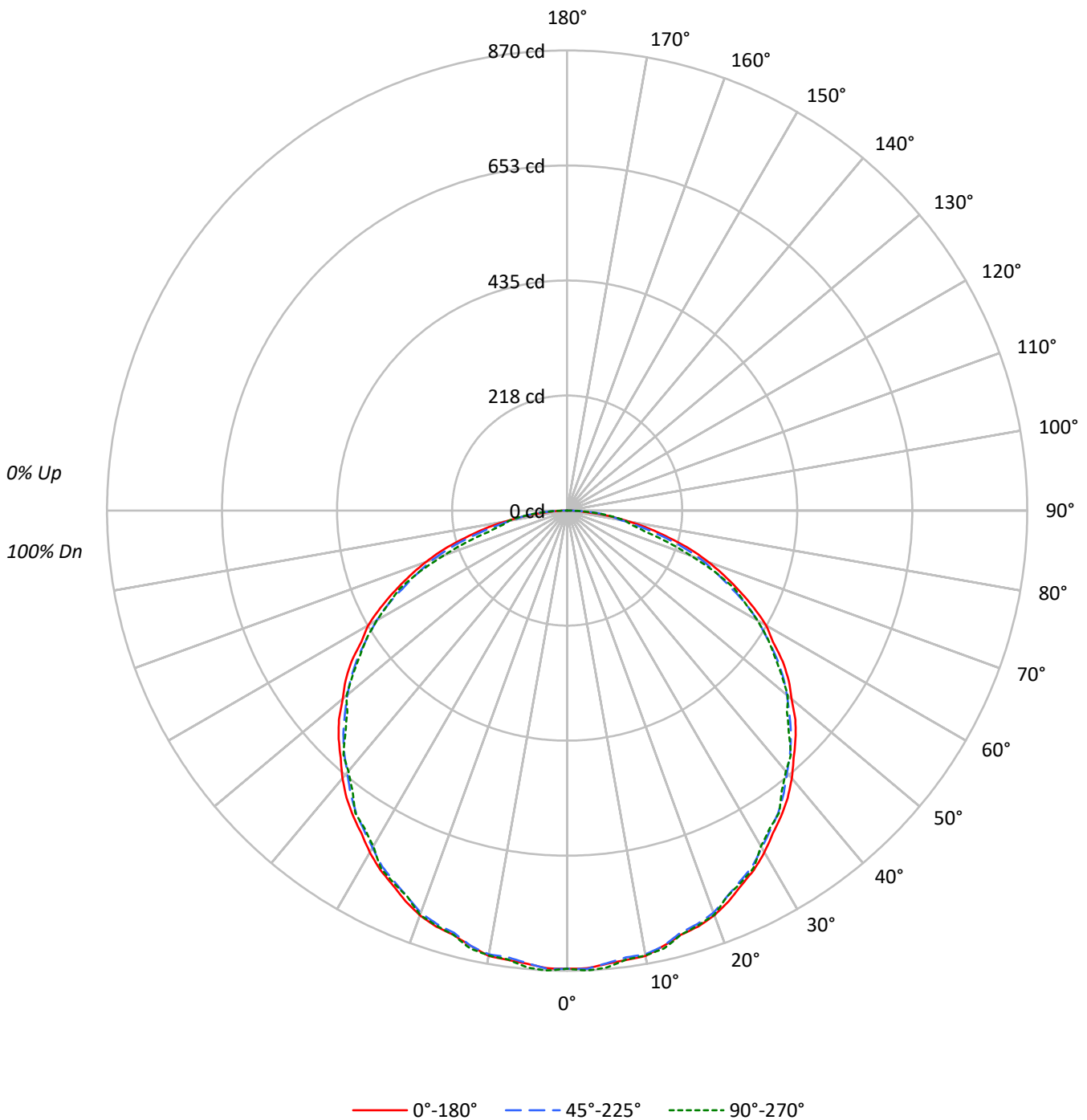
Input Watts (W): 26.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2331	2331	2331
5°	2323	2320	2343
10°	2336	2328	2334
15°	2314	2303	2314
20°	2332	2317	2329
25°	2318	2297	2306
30°	2318	2287	2277
35°	2317	2287	2294
40°	2321	2270	2260
45°	2324	2278	2254
50°	2318	2271	2280
55°	2335	2263	2244
60°	2339	2241	2235
65°	2288	2158	2223
70°	2234	2122	1954
75°	2085	1915	1577
80°	1846	1593	1736
85°	1318	1791	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.1
10°-20°	235.3	9.0
20°-30°	358.3	13.8
30°-40°	436.2	16.8
40°-50°	463.1	17.8
50°-60°	433.3	16.6
60°-70°	342.6	13.2
70°-80°	193.5	7.4
80°-90°	59.2	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°	675.6	25.9
0°-40°	1111.7	42.7
0°-60°	2008.2	77.1
0°-90°	2603.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2603.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	860	860	859	863	867	82
15°	830	834	826	835	830	236
25°	781	782	774	775	777	361
35°	705	704	696	691	698	441
45°	611	606	598	596	592	471
55°	498	491	482	478	478	443
65°	359	352	339	343	349	356
75°	200	195	184	163	152	213
85°	43	48	58	58	56	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.2	866.2	866.2	866.2	866.2
2.5°	866.2	868.2	867.2	864.1	870.2
5°	860.1	860.1	859.0	863.1	867.2
7.5°	857.0	858.0	851.9	860.1	856.0
10°	855.0	857.0	851.9	850.9	854.0
12.5°	842.8	841.7	842.8	842.8	847.8
15°	830.5	833.6	826.5	834.6	830.5
17.5°	824.4	828.5	819.3	820.4	822.4
20°	814.3	810.2	809.2	806.1	813.2
22.5°	799.0	792.9	789.8	793.9	789.8
25°	780.7	781.7	773.5	774.6	776.6
27.5°	765.4	764.4	758.3	756.2	762.4
30°	746.1	740.0	735.9	736.9	732.8
32.5°	723.7	722.7	715.5	714.5	712.5
35°	705.4	704.3	696.2	691.1	698.2
37.5°	685.0	677.9	672.8	669.7	666.7
40°	660.6	656.5	646.3	644.3	643.3
42.5°	634.1	634.1	623.9	617.8	626.0
45°	610.7	605.6	598.5	596.4	592.4
47.5°	585.2	580.2	570.0	566.9	563.9
50°	553.7	553.7	542.5	538.4	544.5
52.5°	528.3	523.2	514.0	512.0	510.9
55°	497.7	490.6	482.4	478.4	478.4
57.5°	461.1	459.0	447.8	444.8	448.9
60°	434.6	426.5	416.3	413.2	415.3
62.5°	398.0	390.8	379.6	377.6	379.6
65°	359.3	352.2	338.9	343.0	349.1
67.5°	321.6	315.5	303.3	306.4	301.3
70°	284.0	277.9	269.7	258.5	248.3
72.5°	245.3	234.1	229.0	207.6	200.5
75°	200.5	195.4	184.2	162.9	151.7
77.5°	160.8	155.7	141.5	123.2	124.2
80°	119.1	123.2	102.8	108.9	112.0
82.5°	79.4	79.4	84.5	88.6	88.6
85°	42.7	47.8	58.0	58.0	56.0
87.5°	16.3	23.4	25.4	25.4	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)