

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: P393016

Luminaire Tested: **14EN-LD2-25-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393016
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-L92765-W2A-1-U (5700K)
Description: 1X4 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2189.2 lumens
Efficiency: N/A
Efficacy: 83.6 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

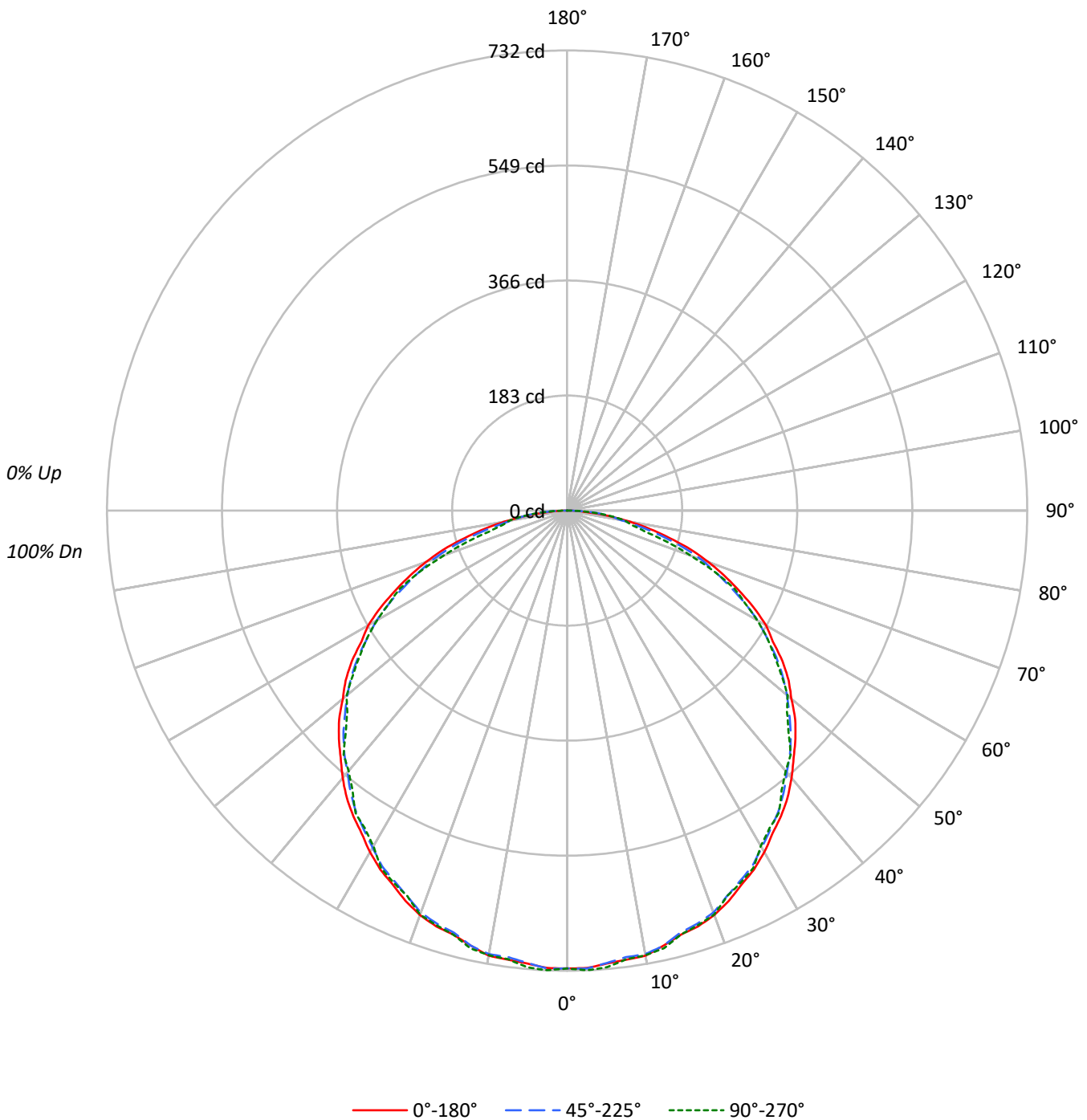
Input Watts (W): 26.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1960	1960	1960
5°	1954	1951	1970
10°	1964	1958	1962
15°	1946	1936	1946
20°	1961	1948	1958
25°	1949	1931	1939
30°	1950	1923	1915
35°	1948	1923	1929
40°	1951	1909	1900
45°	1954	1915	1896
50°	1949	1910	1917
55°	1963	1903	1887
60°	1967	1884	1879
65°	1924	1815	1869
70°	1879	1784	1643
75°	1753	1611	1326
80°	1551	1339	1458
85°	1108	1507	1454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.1
10°-20°	197.9	9.0
20°-30°	301.3	13.8
30°-40°	366.8	16.8
40°-50°	389.4	17.8
50°-60°	364.4	16.6
60°-70°	288.1	13.2
70°-80°	162.7	7.4
80°-90°	49.8	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°	568.1	25.9
0°-40°	934.8	42.7
0°-60°	1688.6	77.1
0°-90°	2189.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2189.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	723	723	722	726	729	69
15°	698	701	695	702	698	198
25°	656	657	650	651	653	303
35°	593	592	585	581	587	371
45°	514	509	503	502	498	396
55°	418	412	406	402	402	373
65°	302	296	285	288	294	299
75°	169	164	155	137	128	179
85°	36	40	49	49	47	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.3	728.3	728.3	728.3	728.3
2.5°	728.3	730.1	729.2	726.6	731.8
5°	723.2	723.2	722.4	725.8	729.2
7.5°	720.6	721.5	716.4	723.2	719.8
10°	718.9	720.6	716.4	715.5	718.1
12.5°	708.7	707.8	708.7	708.7	712.9
15°	698.4	701.0	695.0	701.8	698.4
17.5°	693.3	696.7	689.0	689.8	691.5
20°	684.7	681.3	680.4	677.8	683.8
22.5°	671.9	666.7	664.2	667.6	664.2
25°	656.5	657.3	650.5	651.3	653.0
27.5°	643.6	642.8	637.6	635.9	641.0
30°	627.4	622.2	618.8	619.6	616.2
32.5°	608.5	607.7	601.7	600.8	599.1
35°	593.1	592.3	585.4	581.1	587.1
37.5°	576.0	570.0	565.7	563.2	560.6
40°	555.5	552.0	543.5	541.8	540.9
42.5°	533.2	533.2	524.6	519.5	526.4
45°	513.5	509.2	503.3	501.5	498.1
47.5°	492.1	487.8	479.3	476.7	474.2
50°	465.6	465.6	456.2	452.8	457.9
52.5°	444.2	439.9	432.2	430.5	429.6
55°	418.5	412.5	405.7	402.3	402.3
57.5°	387.7	386.0	376.6	374.0	377.4
60°	365.5	358.6	350.1	347.5	349.2
62.5°	334.6	328.7	319.2	317.5	319.2
65°	302.1	296.1	285.0	288.4	293.6
67.5°	270.5	265.3	255.0	257.6	253.3
70°	238.8	233.7	226.8	217.4	208.8
72.5°	206.3	196.8	192.6	174.6	168.6
75°	168.6	164.3	154.9	136.9	127.5
77.5°	135.2	130.9	119.0	103.6	104.4
80°	100.1	103.6	86.4	91.6	94.1
82.5°	66.8	66.8	71.0	74.5	74.5
85°	35.9	40.2	48.8	48.8	47.1
87.5°	13.7	19.7	21.4	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)