

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: P393015

Luminaire Tested: **14EN-LD2-25-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393015
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 (5000K)
Description: 1X4 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2156.1 lumens
Efficiency: N/A
Efficacy: 82.3 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

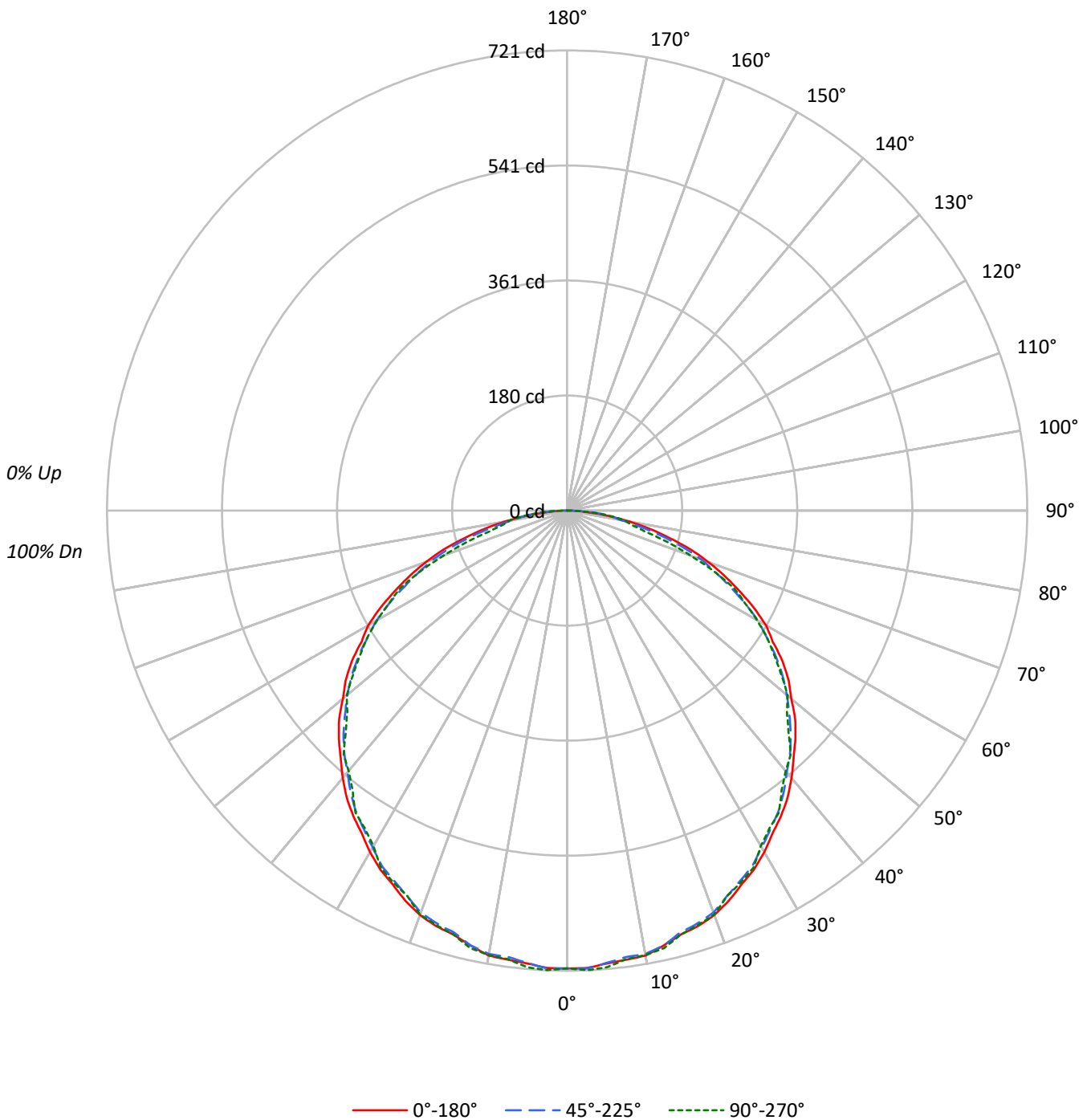
Input Watts (W): 26.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1930	1930	1930
5°	1924	1922	1940
10°	1935	1928	1932
15°	1916	1907	1916
20°	1931	1919	1929
25°	1920	1902	1909
30°	1920	1894	1886
35°	1919	1894	1899
40°	1922	1880	1871
45°	1925	1886	1867
50°	1919	1881	1888
55°	1934	1874	1859
60°	1937	1855	1851
65°	1894	1787	1841
70°	1851	1758	1618
75°	1727	1587	1306
80°	1528	1319	1437
85°	1093	1482	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	3.1
10°-20°	194.9	9.0
20°-30°	296.7	13.8
30°-40°	361.2	16.8
40°-50°	383.5	17.8
50°-60°	358.8	16.6
60°-70°	283.8	13.2
70°-80°	160.3	7.4
80°-90°	49.0	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°	559.5	25.9
0°-40°	920.7	42.7
0°-60°	1663.0	77.1
0°-90°	2156.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2156.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	712	712	711	715	718	68
15°	688	690	684	691	688	195
25°	646	647	641	641	643	299
35°	584	583	576	572	578	366
45°	506	502	496	494	491	390
55°	412	406	400	396	396	367
65°	298	292	281	284	289	295
75°	166	162	153	135	126	176
85°	35	40	48	48	46	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	717.3	717.3	717.3	717.3	717.3
2.5°	717.3	719.0	718.2	715.6	720.7
5°	712.3	712.3	711.4	714.8	718.2
7.5°	709.7	710.6	705.5	712.3	708.9
10°	708.0	709.7	705.5	704.7	707.2
12.5°	697.9	697.1	697.9	697.9	702.1
15°	687.8	690.3	684.4	691.2	687.8
17.5°	682.7	686.1	678.5	679.4	681.1
20°	674.3	670.9	670.1	667.6	673.5
22.5°	661.7	656.6	654.1	657.5	654.1
25°	646.5	647.3	640.6	641.4	643.1
27.5°	633.9	633.0	628.0	626.3	631.3
30°	617.8	612.8	609.4	610.3	606.9
32.5°	599.3	598.5	592.6	591.7	590.0
35°	584.1	583.3	576.5	572.3	578.2
37.5°	567.3	561.4	557.2	554.6	552.1
40°	547.0	543.7	535.2	533.6	532.7
42.5°	525.1	525.1	516.7	511.6	518.4
45°	505.7	501.5	495.6	493.9	490.6
47.5°	484.7	480.5	472.0	469.5	467.0
50°	458.5	458.5	449.3	445.9	451.0
52.5°	437.5	433.3	425.7	424.0	423.1
55°	412.2	406.3	399.5	396.2	396.2
57.5°	381.8	380.1	370.9	368.3	371.7
60°	359.9	353.2	344.7	342.2	343.9
62.5°	329.6	323.7	314.4	312.7	314.4
65°	297.5	291.6	280.7	284.1	289.1
67.5°	266.4	261.3	251.2	253.7	249.5
70°	235.2	230.1	223.4	214.1	205.7
72.5°	203.1	193.9	189.7	172.0	166.1
75°	166.1	161.8	152.6	134.9	125.6
77.5°	133.2	129.0	117.2	102.0	102.8
80°	98.6	102.0	85.1	90.2	92.7
82.5°	65.7	65.7	70.0	73.3	73.3
85°	35.4	39.6	48.0	48.0	46.4
87.5°	13.5	19.4	21.1	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)