

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: P393010

Luminaire Tested: **14EN-LD2-25-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393010
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 (2700K)
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: 1919.8 lumens
Efficiency: N/A
Efficacy: 73.6 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

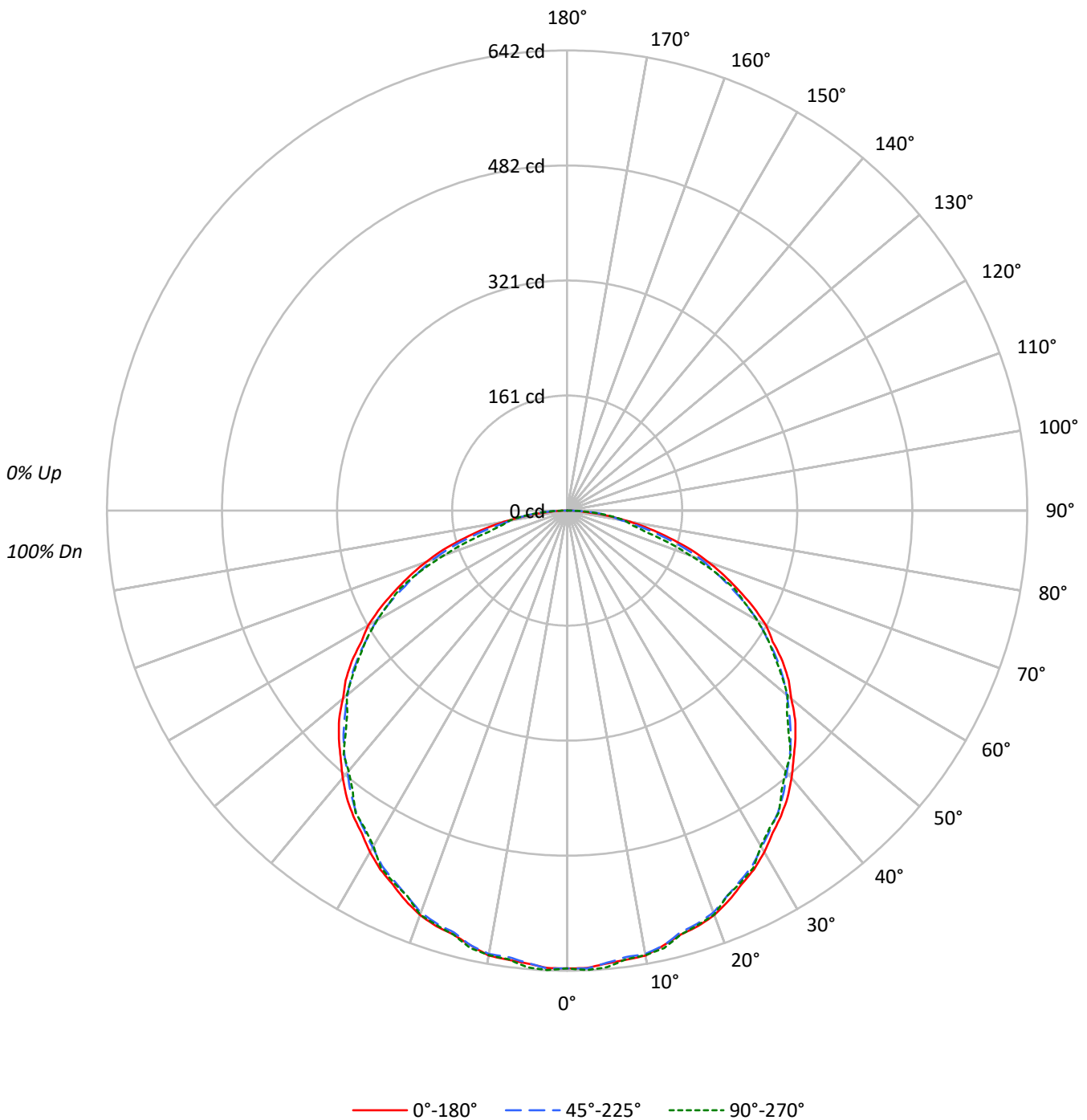
Input Watts (W): 26.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1719	1719	1719
5°	1713	1711	1727
10°	1723	1717	1721
15°	1706	1698	1706
20°	1719	1709	1717
25°	1709	1694	1700
30°	1709	1686	1679
35°	1709	1686	1691
40°	1711	1674	1666
45°	1714	1679	1662
50°	1709	1675	1681
55°	1722	1669	1655
60°	1725	1652	1648
65°	1687	1591	1639
70°	1648	1565	1441
75°	1537	1412	1162
80°	1361	1175	1280
85°	973	1321	1275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.1
10°-20°	173.5	9.0
20°-30°	264.2	13.8
30°-40°	321.6	16.8
40°-50°	341.5	17.8
50°-60°	319.5	16.6
60°-70°	252.7	13.2
70°-80°	142.7	7.4
80°-90°	43.6	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°	498.2	25.9
0°-40°	819.8	42.7
0°-60°	1480.8	77.1
0°-90°	1919.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1919.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	634	634	633	636	639	60
15°	612	615	609	615	612	174
25°	576	576	570	571	573	266
35°	520	519	513	510	515	326
45°	450	447	441	440	437	347
55°	367	362	356	353	353	327
65°	265	260	250	253	257	262
75°	148	144	136	120	112	157
85°	32	35	43	43	41	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.7	638.7	638.7	638.7	638.7
2.5°	638.7	640.2	639.4	637.2	641.7
5°	634.2	634.2	633.4	636.4	639.4
7.5°	631.9	632.7	628.2	634.2	631.2
10°	630.4	631.9	628.2	627.4	629.7
12.5°	621.4	620.7	621.4	621.4	625.2
15°	612.4	614.7	609.4	615.4	612.4
17.5°	607.9	610.9	604.2	604.9	606.4
20°	600.4	597.4	596.7	594.4	599.7
22.5°	589.1	584.6	582.4	585.4	582.4
25°	575.6	576.4	570.4	571.1	572.6
27.5°	564.4	563.6	559.1	557.6	562.1
30°	550.1	545.6	542.6	543.4	540.4
32.5°	533.6	532.9	527.6	526.9	525.4
35°	520.1	519.3	513.3	509.6	514.8
37.5°	505.1	499.8	496.1	493.8	491.6
40°	487.1	484.1	476.6	475.1	474.3
42.5°	467.6	467.6	460.1	455.6	461.6
45°	450.3	446.6	441.3	439.8	436.8
47.5°	431.5	427.8	420.3	418.0	415.8
50°	408.3	408.3	400.0	397.0	401.5
52.5°	389.5	385.8	379.0	377.5	376.8
55°	367.0	361.7	355.7	352.7	352.7
57.5°	340.0	338.5	330.2	328.0	331.0
60°	320.5	314.5	307.0	304.7	306.2
62.5°	293.4	288.2	279.9	278.4	279.9
65°	264.9	259.7	249.9	252.9	257.4
67.5°	237.2	232.7	223.7	225.9	222.1
70°	209.4	204.9	198.9	190.6	183.1
72.5°	180.9	172.6	168.9	153.1	147.8
75°	147.8	144.1	135.8	120.1	111.8
77.5°	118.6	114.8	104.3	90.8	91.6
80°	87.8	90.8	75.8	80.3	82.6
82.5°	58.5	58.5	62.3	65.3	65.3
85°	31.5	35.3	42.8	42.8	41.3
87.5°	12.0	17.3	18.8	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)