

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: P393012

Luminaire Tested: **14EN-LD2-25-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393012
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 (3500K)
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: 2025.8 lumens
Efficiency: N/A
Efficacy: 77.3 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

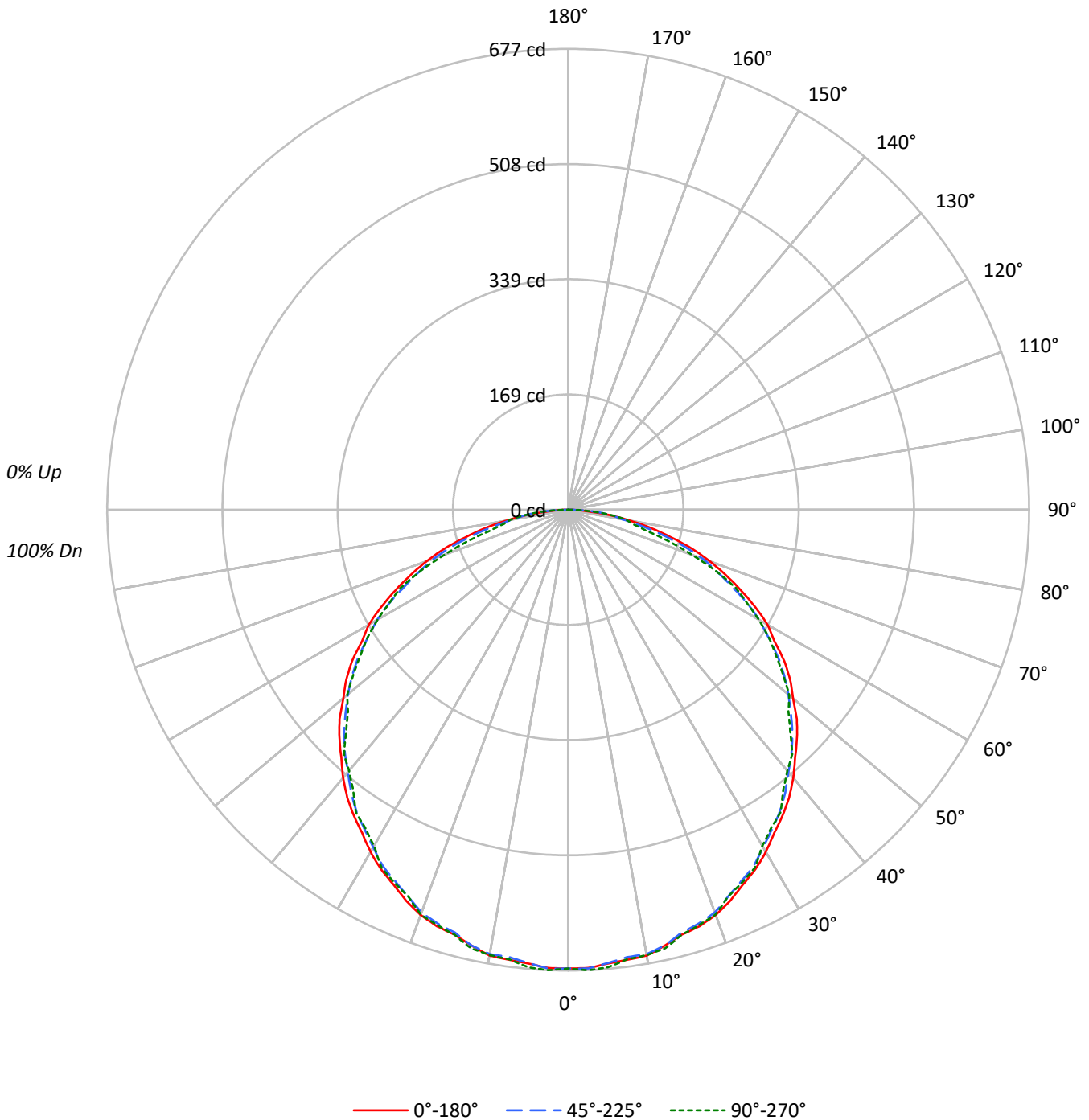
Input Watts (W): 26.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1814	1814	1814
5°	1808	1806	1823
10°	1818	1811	1815
15°	1800	1792	1800
20°	1814	1803	1812
25°	1803	1787	1794
30°	1804	1779	1772
35°	1803	1780	1785
40°	1806	1767	1758
45°	1808	1772	1754
50°	1804	1767	1774
55°	1817	1761	1746
60°	1820	1743	1739
65°	1780	1679	1729
70°	1739	1651	1520
75°	1622	1490	1227
80°	1437	1240	1350
85°	1028	1392	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	3.1
10°-20°	183.1	9.0
20°-30°	278.8	13.8
30°-40°	339.4	16.8
40°-50°	360.3	17.8
50°-60°	337.2	16.6
60°-70°	266.6	13.2
70°-80°	150.6	7.4
80°-90°	46.0	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°	525.7	25.9
0°-40°	865.0	42.7
0°-60°	1562.5	77.1
0°-90°	2025.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2025.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	669	669	668	672	675	64
15°	646	649	643	649	646	183
25°	607	608	602	603	604	281
35°	549	548	542	538	543	343
45°	475	471	466	464	461	366
55°	387	382	375	372	372	345
65°	280	274	264	267	272	277
75°	156	152	143	127	118	166
85°	33	37	45	45	44	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674.0	674.0	674.0	674.0	674.0
2.5°	674.0	675.5	674.7	672.4	677.1
5°	669.2	669.2	668.4	671.6	674.7
7.5°	666.8	667.6	662.9	669.2	666.0
10°	665.2	666.8	662.9	662.1	664.4
12.5°	655.7	654.9	655.7	655.7	659.7
15°	646.2	648.6	643.1	649.4	646.2
17.5°	641.5	644.6	637.5	638.3	639.9
20°	633.6	630.4	629.6	627.2	632.8
22.5°	621.7	616.9	614.6	617.7	614.6
25°	607.4	608.2	601.9	602.7	604.3
27.5°	595.5	594.8	590.0	588.4	593.2
30°	580.5	575.7	572.6	573.4	570.2
32.5°	563.1	562.3	556.7	556.0	554.4
35°	548.8	548.0	541.7	537.7	543.3
37.5°	533.0	527.4	523.5	521.1	518.7
40°	514.0	510.8	502.9	501.3	500.5
42.5°	493.4	493.4	485.5	480.7	487.1
45°	475.2	471.2	465.7	464.1	460.9
47.5°	455.4	451.4	443.5	441.1	438.7
50°	430.8	430.8	422.1	418.9	423.7
52.5°	411.0	407.1	399.9	398.4	397.6
55°	387.3	381.7	375.4	372.2	372.2
57.5°	358.8	357.2	348.5	346.1	349.3
60°	338.2	331.8	323.9	321.5	323.1
62.5°	309.7	304.1	295.4	293.8	295.4
65°	279.6	274.0	263.7	266.9	271.6
67.5°	250.3	245.5	236.0	238.4	234.4
70°	221.0	216.2	209.9	201.2	193.2
72.5°	190.9	182.1	178.2	161.6	156.0
75°	156.0	152.1	143.3	126.7	118.0
77.5°	125.1	121.2	110.1	95.8	96.6
80°	92.7	95.8	80.0	84.7	87.1
82.5°	61.8	61.8	65.7	68.9	68.9
85°	33.3	37.2	45.1	45.1	43.6
87.5°	12.7	18.2	19.8	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)