

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: P393271

Luminaire Tested: **22EN-LD2-25-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-25-UNV-L92765-W2A-1-U (5000K)
Description: 2X2 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: 2109.0 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

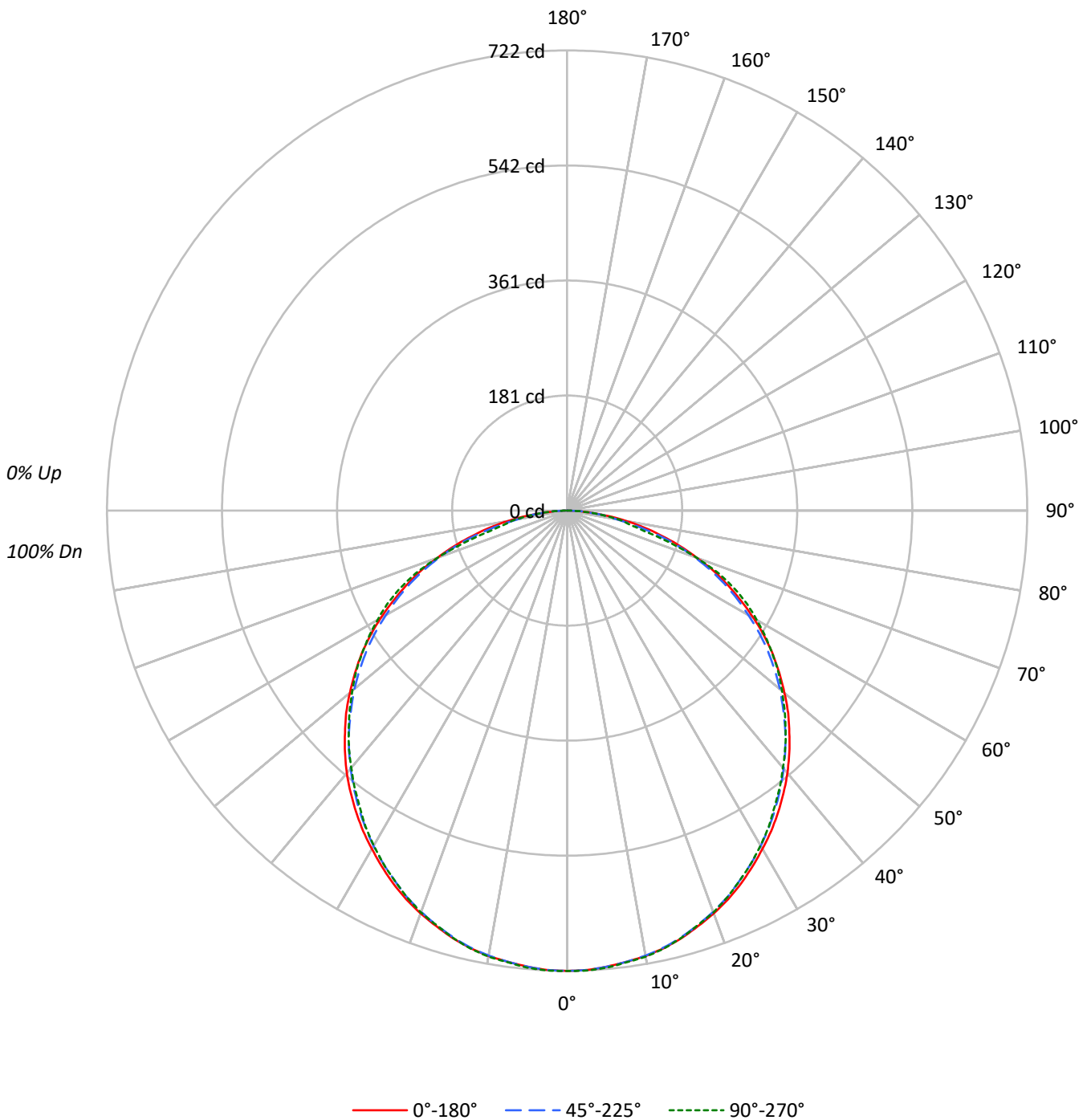
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1944	1944	1944
5°	1940	1940	1944
10°	1939	1937	1942
15°	1935	1930	1933
20°	1926	1919	1921
25°	1917	1902	1902
30°	1904	1888	1886
35°	1897	1872	1864
40°	1889	1857	1851
45°	1877	1841	1845
50°	1863	1824	1842
55°	1851	1803	1847
60°	1819	1769	1851
65°	1777	1734	1847
70°	1704	1665	1698
75°	1613	1525	1324
80°	1463	1227	1306
85°	1068	1093	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	3.2
10°-20°	195.6	9.3
20°-30°	295.8	14.0
30°-40°	357.3	16.9
40°-50°	375.0	17.8
50°-60°	347.4	16.5
60°-70°	274.3	13.0
70°-80°	153.8	7.3
80°-90°	41.5	2.0
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°	559.6	26.5
0°-40°	916.9	43.5
0°-60°	1639.3	77.7
0°-90°	2109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	718	717	718	719	720	68
15°	694	693	693	693	694	196
25°	646	643	641	639	641	298
35°	577	575	570	566	567	361
45°	493	489	484	481	485	381
55°	394	390	384	388	394	352
65°	279	276	272	282	290	276
75°	155	153	147	132	127	164
85°	35	35	35	35	35	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	722.4	722.4	722.4	722.4	722.4
2.5°	721.5	720.7	721.5	721.5	722.4
5°	718.2	717.3	718.2	719.0	719.8
7.5°	713.9	713.1	713.9	714.8	714.8
10°	709.7	708.0	708.9	709.7	710.6
12.5°	703.0	702.1	702.1	702.1	703.8
15°	694.5	692.9	692.9	692.9	693.7
17.5°	683.6	682.7	681.9	681.9	681.9
20°	672.6	670.9	670.1	669.3	670.9
22.5°	660.0	658.3	656.6	654.9	656.6
25°	645.7	643.1	640.6	638.9	640.6
27.5°	629.6	628.0	624.6	622.1	624.6
30°	612.8	610.3	607.7	605.2	606.9
32.5°	595.9	593.4	589.2	585.8	588.3
35°	577.4	574.9	569.8	566.4	567.3
37.5°	558.0	554.6	549.6	546.2	547.9
40°	537.8	534.4	528.5	524.3	526.8
42.5°	515.9	512.5	506.6	504.1	506.6
45°	493.1	488.9	483.8	481.3	484.7
47.5°	470.3	467.0	459.4	459.4	462.8
50°	445.1	441.7	435.8	435.8	440.0
52.5°	419.8	415.5	410.5	412.2	418.1
55°	394.5	390.3	384.4	387.7	393.6
57.5°	366.7	363.3	357.4	362.4	369.2
60°	338.0	333.8	328.7	335.5	343.9
62.5°	308.5	305.1	300.9	309.3	318.6
65°	279.0	275.6	272.3	281.5	290.0
67.5°	250.3	246.1	242.8	251.2	257.1
70°	216.6	214.1	211.6	213.3	215.8
72.5°	186.3	183.8	181.2	174.5	172.0
75°	155.1	152.6	146.7	132.3	127.3
77.5°	124.7	122.2	111.3	98.6	99.5
80°	94.4	91.9	79.2	81.8	84.3
82.5°	64.9	61.5	59.0	58.2	58.2
85°	34.6	34.6	35.4	34.6	34.6
87.5°	14.3	15.2	15.2	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)