

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: P393252

Luminaire Tested: **22EN-LD2-25-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393252
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-L82765-W2A-1-U (3500K)
Description: 2X2 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2369.7 lumens
Efficiency: N/A
Efficacy: 130.9 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

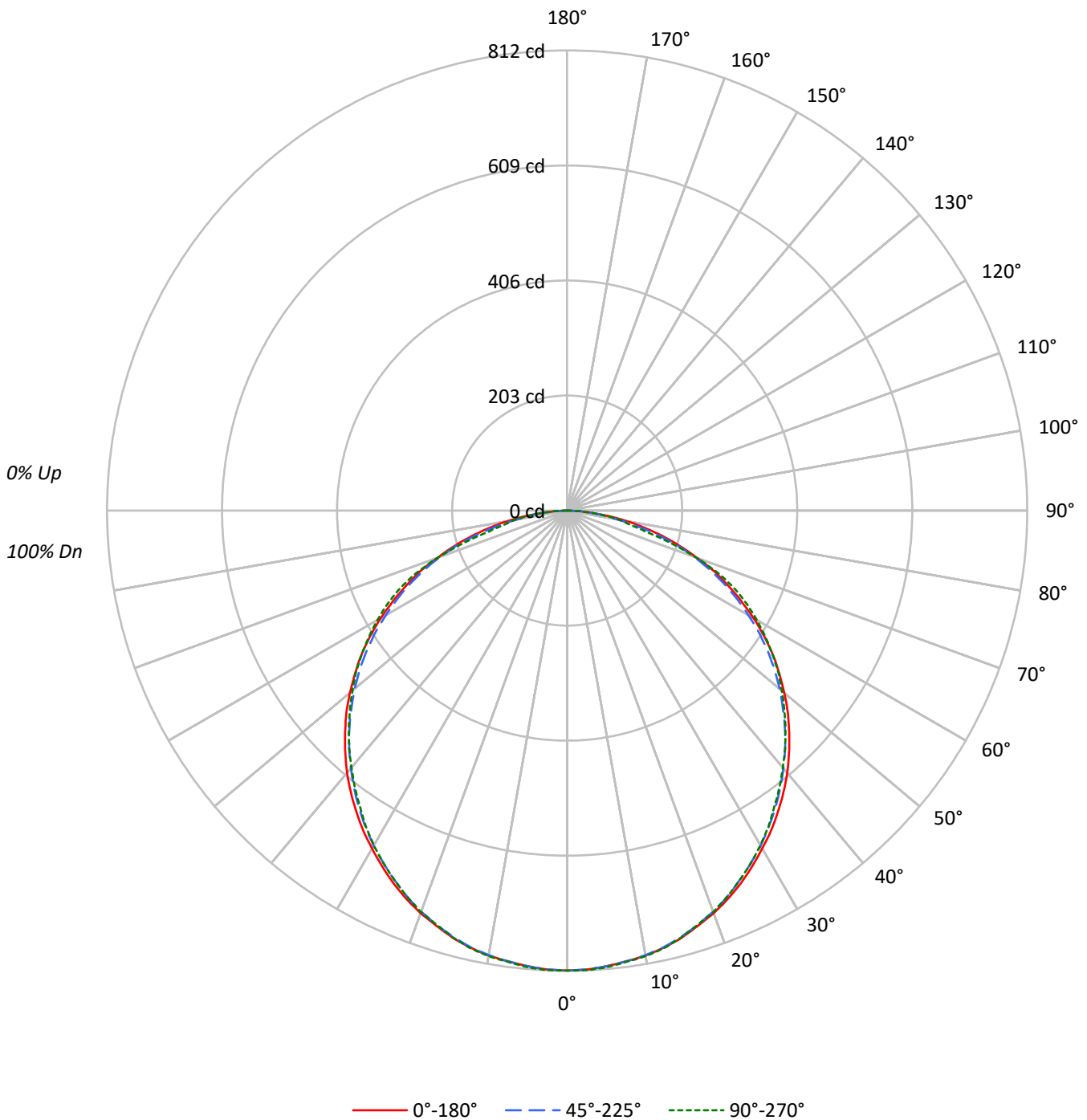
Input Watts (W): 18.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2184	2184	2184
5°	2180	2180	2185
10°	2179	2176	2182
15°	2174	2169	2172
20°	2164	2156	2159
25°	2154	2137	2137
30°	2140	2122	2119
35°	2131	2103	2094
40°	2123	2086	2079
45°	2109	2069	2073
50°	2094	2050	2070
55°	2079	2026	2075
60°	2044	1988	2080
65°	1996	1948	2074
70°	1915	1870	1908
75°	1812	1713	1487
80°	1644	1379	1468
85°	1198	1229	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.2
10°-20°	219.8	9.3
20°-30°	332.3	14.0
30°-40°	401.4	16.9
40°-50°	421.4	17.8
50°-60°	390.4	16.5
60°-70°	308.2	13.0
70°-80°	172.8	7.3
80°-90°	46.6	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°	628.8	26.5
0°-40°	1030.2	43.5
0°-60°	1842.0	77.7
0°-90°	2369.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2369.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	807	806	807	808	809	77
15°	780	778	778	778	780	220
25°	726	723	720	718	720	334
35°	649	646	640	636	637	406
45°	554	549	544	541	545	428
55°	443	438	432	436	442	395
65°	314	310	306	316	326	310
75°	174	171	165	149	143	184
85°	39	39	40	39	39	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	811.7	811.7	811.7	811.7	811.7
2.5°	810.7	809.8	810.7	810.7	811.7
5°	806.9	806.0	806.9	807.9	808.8
7.5°	802.2	801.3	802.2	803.2	803.2
10°	797.5	795.6	796.5	797.5	798.4
12.5°	789.9	788.9	788.9	788.9	790.8
15°	780.4	778.5	778.5	778.5	779.5
17.5°	768.1	767.2	766.2	766.2	766.2
20°	755.8	753.9	753.0	752.0	753.9
22.5°	741.6	739.7	737.8	735.9	737.8
25°	725.5	722.6	719.8	717.9	719.8
27.5°	707.5	705.6	701.8	699.0	701.8
30°	688.6	685.7	682.9	680.0	681.9
32.5°	669.6	666.8	662.0	658.2	661.1
35°	648.8	645.9	640.2	636.5	637.4
37.5°	627.0	623.2	617.5	613.7	615.6
40°	604.3	600.5	593.8	589.1	591.9
42.5°	579.6	575.8	569.2	566.4	569.2
45°	554.1	549.3	543.6	540.8	544.6
47.5°	528.5	524.7	516.2	516.2	520.0
50°	500.1	496.3	489.7	489.7	494.4
52.5°	471.7	466.9	461.2	463.1	469.8
55°	443.2	438.5	431.9	435.7	442.3
57.5°	412.0	408.2	401.6	407.3	414.8
60°	379.8	375.1	369.4	377.0	386.4
62.5°	346.6	342.9	338.1	347.6	358.0
65°	313.5	309.7	305.9	316.3	325.8
67.5°	281.3	276.6	272.8	282.2	288.9
70°	243.4	240.6	237.7	239.6	242.5
72.5°	209.3	206.5	203.6	196.1	193.2
75°	174.3	171.4	164.8	148.7	143.0
77.5°	140.2	137.3	125.0	110.8	111.8
80°	106.1	103.2	89.0	91.9	94.7
82.5°	72.9	69.1	66.3	65.4	65.4
85°	38.8	38.8	39.8	38.8	38.8
87.5°	16.1	17.0	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)