

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: P393251

Luminaire Tested: **22EN-LD2-25-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393251
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 (3000K)
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: 2294.9 lumens
Efficiency: N/A
Efficacy: 126.8 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

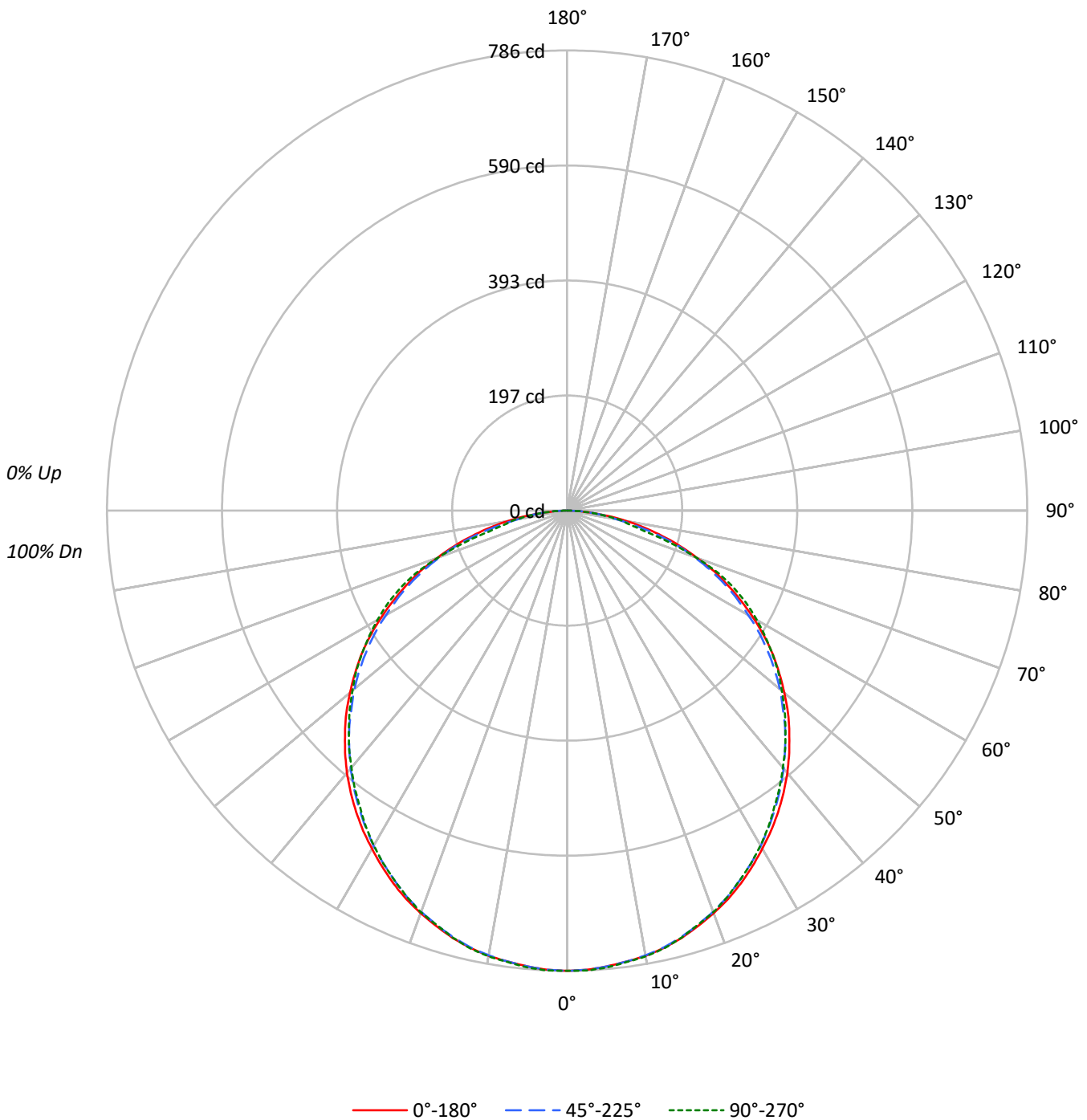
Input Watts (W): 18.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2115	2115	2115
5°	2111	2111	2116
10°	2110	2108	2113
15°	2106	2101	2103
20°	2096	2088	2091
25°	2086	2070	2070
30°	2072	2055	2052
35°	2064	2037	2028
40°	2056	2020	2014
45°	2042	2004	2007
50°	2027	1985	2004
55°	2014	1962	2009
60°	1979	1925	2014
65°	1933	1887	2009
70°	1854	1811	1847
75°	1755	1659	1440
80°	1592	1336	1421
85°	1161	1189	1161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	3.2
10°-20°	212.8	9.3
20°-30°	321.8	14.0
30°-40°	388.7	16.9
40°-50°	408.1	17.8
50°-60°	378.1	16.5
60°-70°	298.5	13.0
70°-80°	167.4	7.3
80°-90°	45.2	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°	609.0	26.5
0°-40°	997.7	43.5
0°-60°	1783.8	77.7
0°-90°	2294.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2294.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	782	781	782	782	783	74
15°	756	754	754	754	755	213
25°	703	700	697	695	697	324
35°	628	626	620	616	617	393
45°	537	532	526	524	527	414
55°	429	425	418	422	428	383
65°	304	300	296	306	316	300
75°	169	166	160	144	138	178
85°	38	38	38	38	38	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	786.1	786.1	786.1	786.1	786.1
2.5°	785.1	784.2	785.1	785.1	786.1
5°	781.5	780.6	781.5	782.4	783.3
7.5°	776.9	776.0	776.9	777.8	777.8
10°	772.3	770.5	771.4	772.3	773.2
12.5°	765.0	764.0	764.0	764.0	765.9
15°	755.8	754.0	754.0	754.0	754.9
17.5°	743.9	742.9	742.0	742.0	742.0
20°	731.9	730.1	729.2	728.3	730.1
22.5°	718.2	716.3	714.5	712.7	714.5
25°	702.6	699.8	697.1	695.3	697.1
27.5°	685.2	683.3	679.7	676.9	679.7
30°	666.8	664.1	661.3	658.6	660.4
32.5°	648.5	645.7	641.1	637.5	640.2
35°	628.3	625.5	620.0	616.4	617.3
37.5°	607.2	603.5	598.0	594.4	596.2
40°	585.2	581.5	575.1	570.5	573.3
42.5°	561.3	557.7	551.2	548.5	551.2
45°	536.6	532.0	526.5	523.7	527.4
47.5°	511.8	508.1	499.9	499.9	503.6
50°	484.3	480.6	474.2	474.2	478.8
52.5°	456.8	452.2	446.7	448.5	454.9
55°	429.3	424.7	418.3	421.9	428.3
57.5°	399.0	395.3	388.9	394.4	401.7
60°	367.8	363.2	357.7	365.1	374.2
62.5°	335.7	332.0	327.4	336.6	346.7
65°	303.6	299.9	296.3	306.4	315.5
67.5°	272.4	267.8	264.2	273.3	279.8
70°	235.7	233.0	230.2	232.1	234.8
72.5°	202.7	200.0	197.2	189.9	187.1
75°	168.8	166.0	159.6	144.0	138.5
77.5°	135.7	133.0	121.1	107.3	108.2
80°	102.7	100.0	86.2	89.0	91.7
82.5°	70.6	67.0	64.2	63.3	63.3
85°	37.6	37.6	38.5	37.6	37.6
87.5°	15.6	16.5	16.5	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)