

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: P393254

Luminaire Tested: **22EN-LD2-25-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393254
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 (4500K)
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: 2406.5 lumens
Efficiency: N/A
Efficacy: 133.7 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

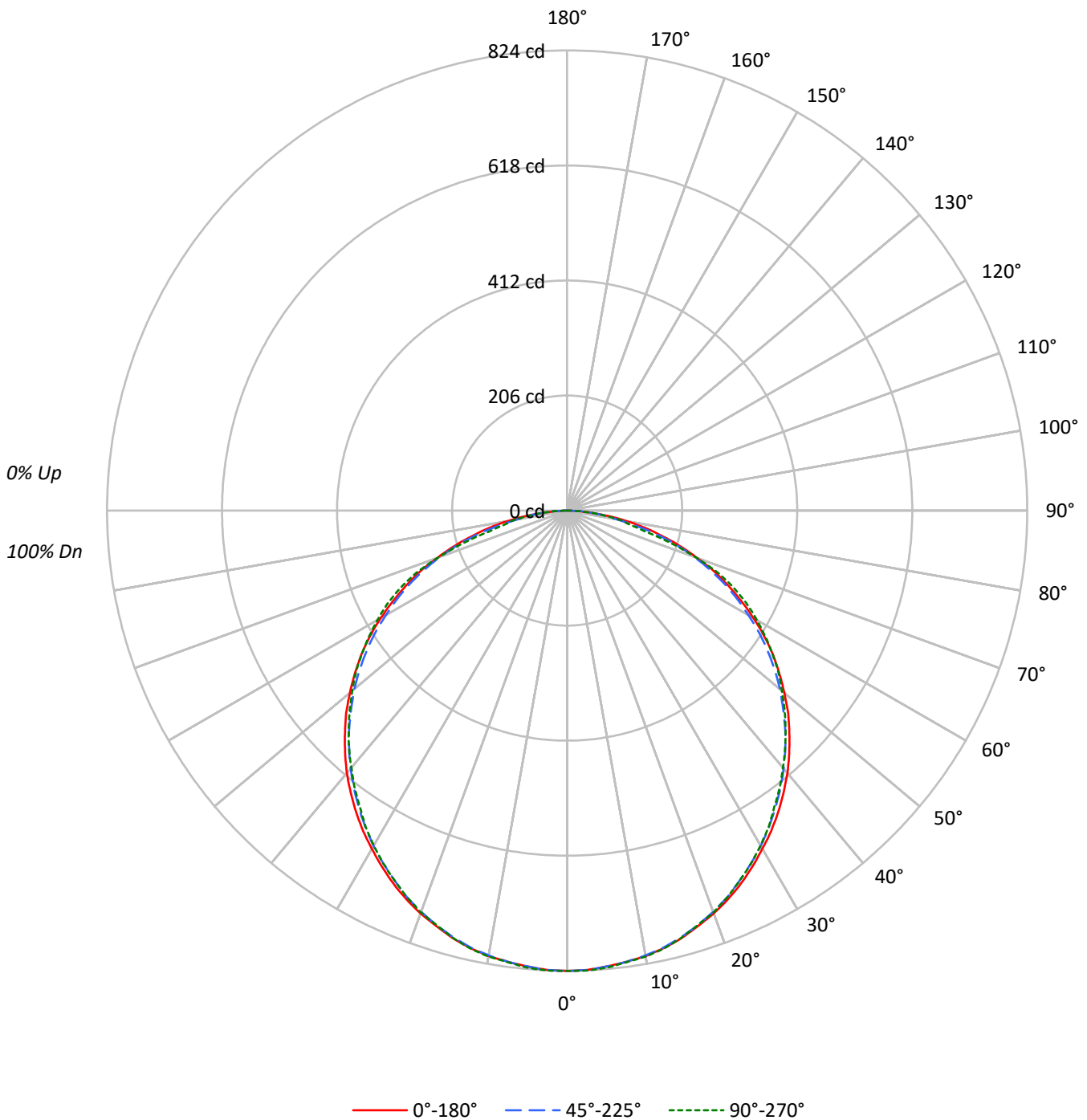
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2218	2218	2218
5°	2214	2214	2219
10°	2213	2210	2216
15°	2208	2203	2205
20°	2198	2190	2192
25°	2188	2170	2170
30°	2173	2155	2152
35°	2165	2136	2126
40°	2155	2119	2112
45°	2141	2101	2105
50°	2126	2082	2102
55°	2112	2058	2107
60°	2076	2019	2112
65°	2027	1978	2107
70°	1945	1899	1937
75°	1840	1740	1510
80°	1669	1401	1491
85°	1216	1247	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	3.2
10°-20°	223.2	9.3
20°-30°	337.5	14.0
30°-40°	407.7	16.9
40°-50°	427.9	17.8
50°-60°	396.4	16.5
60°-70°	313.0	13.0
70°-80°	175.5	7.3
80°-90°	47.4	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°	638.6	26.5
0°-40°	1046.3	43.5
0°-60°	1870.6	77.7
0°-90°	2406.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2406.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	820	818	820	820	821	78
15°	792	791	791	791	792	224
25°	737	734	731	729	731	339
35°	659	656	650	646	647	412
45°	563	558	552	549	553	434
55°	450	445	439	442	449	401
65°	318	314	311	321	331	315
75°	177	174	167	151	145	187
85°	39	39	40	39	39	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.3	824.3	824.3	824.3	824.3
2.5°	823.3	822.4	823.3	823.3	824.3
5°	819.5	818.5	819.5	820.4	821.4
7.5°	814.7	813.7	814.7	815.6	815.6
10°	809.9	807.9	808.9	809.9	810.8
12.5°	802.2	801.2	801.2	801.2	803.1
15°	792.5	790.6	790.6	790.6	791.6
17.5°	780.0	779.1	778.1	778.1	778.1
20°	767.5	765.6	764.7	763.7	765.6
22.5°	753.1	751.2	749.3	747.3	749.3
25°	736.8	733.9	731.0	729.1	731.0
27.5°	718.5	716.6	712.7	709.8	712.7
30°	699.3	696.4	693.5	690.6	692.5
32.5°	680.0	677.1	672.3	668.5	671.4
35°	658.9	656.0	650.2	646.4	647.3
37.5°	636.7	632.9	627.1	623.3	625.2
40°	613.6	609.8	603.1	598.3	601.1
42.5°	588.6	584.8	578.1	575.2	578.1
45°	562.7	557.9	552.1	549.2	553.1
47.5°	536.7	532.9	524.2	524.2	528.0
50°	507.8	504.0	497.3	497.3	502.1
52.5°	479.0	474.2	468.4	470.3	477.1
55°	450.1	445.3	438.6	442.4	449.2
57.5°	418.4	414.5	407.8	413.6	421.3
60°	385.7	380.9	375.1	382.8	392.4
62.5°	352.0	348.2	343.4	353.0	363.6
65°	318.4	314.5	310.7	321.3	330.9
67.5°	285.7	280.9	277.0	286.6	293.4
70°	247.2	244.3	241.4	243.3	246.2
72.5°	212.6	209.7	206.8	199.1	196.2
75°	177.0	174.1	167.4	151.0	145.2
77.5°	142.4	139.5	127.0	112.5	113.5
80°	107.7	104.8	90.4	93.3	96.2
82.5°	74.1	70.2	67.3	66.4	66.4
85°	39.4	39.4	40.4	39.4	39.4
87.5°	16.4	17.3	17.3	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)