

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: P393255

Luminaire Tested: **22EN-LD2-25-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393255
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 (5000K)
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: 2402.7 lumens
Efficiency: N/A
Efficacy: 133.5 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

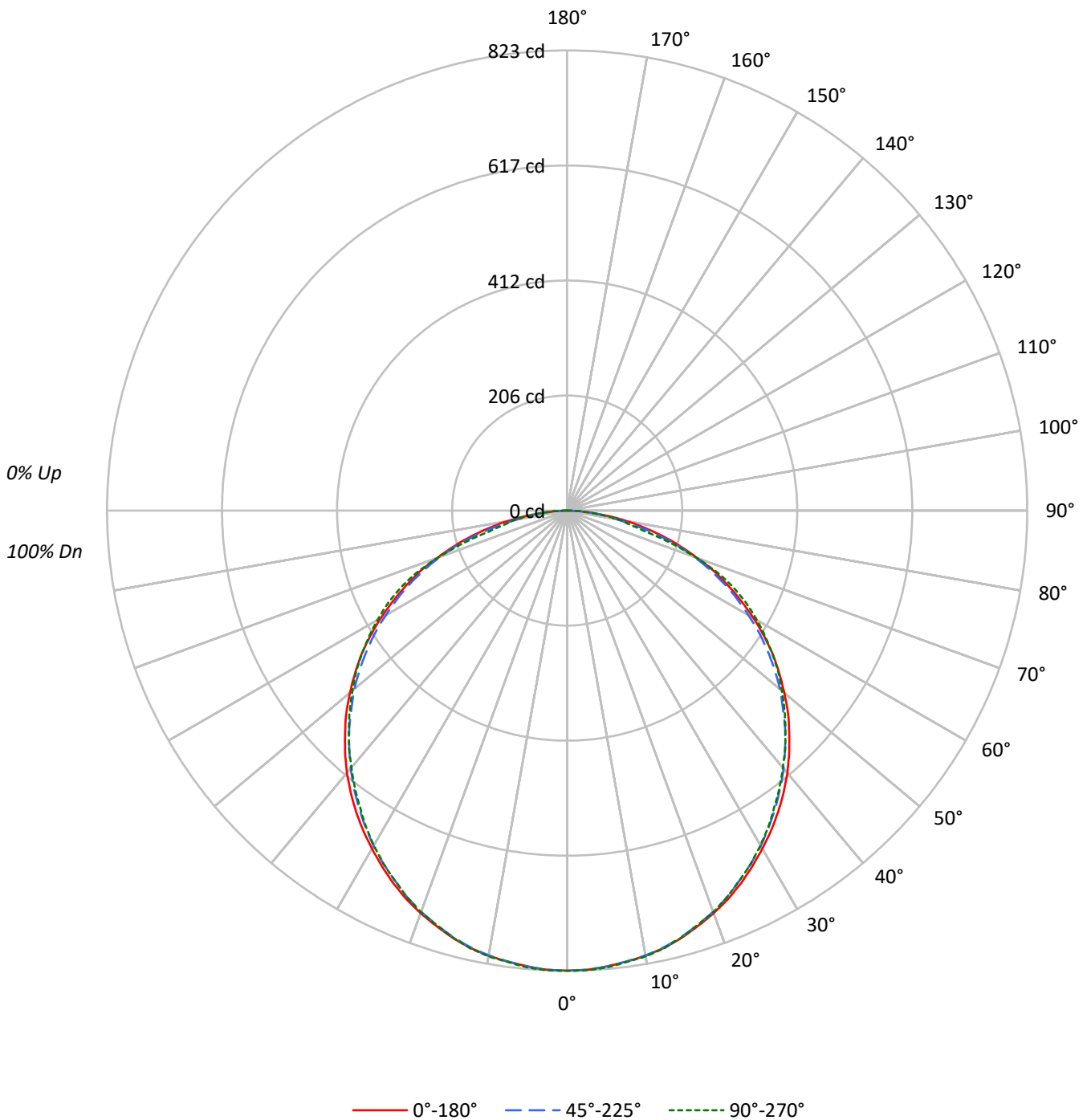
Input Watts (W): 18
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2215	2215	2215
5°	2210	2210	2215
10°	2209	2207	2212
15°	2204	2199	2202
20°	2194	2186	2189
25°	2184	2167	2167
30°	2169	2151	2148
35°	2161	2132	2123
40°	2152	2115	2108
45°	2138	2098	2101
50°	2123	2079	2099
55°	2108	2054	2104
60°	2073	2016	2109
65°	2024	1975	2103
70°	1942	1896	1934
75°	1837	1737	1508
80°	1667	1399	1488
85°	1216	1244	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	3.2
10°-20°	222.8	9.3
20°-30°	337.0	14.0
30°-40°	407.0	16.9
40°-50°	427.2	17.8
50°-60°	395.8	16.5
60°-70°	312.5	13.0
70°-80°	175.2	7.3
80°-90°	47.3	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°	637.6	26.5
0°-40°	1044.6	43.5
0°-60°	1867.6	77.7
0°-90°	2402.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2402.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	818	817	818	819	820	78
15°	791	789	789	789	790	223
25°	736	733	730	728	730	339
35°	658	655	649	645	646	412
45°	562	557	551	548	552	434
55°	449	445	438	442	448	401
65°	318	314	310	321	330	314
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°	823.0	823.0	823.0	823.0	823.0
2.5°	822.0	821.0	822.0	822.0	823.0
5°	818.2	817.2	818.2	819.1	820.1
7.5°	813.4	812.4	813.4	814.3	814.3
10°	808.6	806.6	807.6	808.6	809.5
12.5°	800.9	799.9	799.9	799.9	801.8
15°	791.3	789.3	789.3	789.3	790.3
17.5°	778.8	777.8	776.9	776.9	776.9
20°	766.3	764.4	763.4	762.5	764.4
22.5°	751.9	750.0	748.1	746.1	748.1
25°	735.6	732.7	729.8	727.9	729.8
27.5°	717.3	715.4	711.6	708.7	711.6
30°	698.1	695.2	692.4	689.5	691.4
32.5°	678.9	676.0	671.2	667.4	670.3
35°	657.8	654.9	649.1	645.3	646.3
37.5°	635.7	631.9	626.1	622.3	624.2
40°	612.7	608.8	602.1	597.3	600.2
42.5°	587.7	583.8	577.1	574.2	577.1
45°	561.8	557.0	551.2	548.3	552.2
47.5°	535.8	532.0	523.3	523.3	527.2
50°	507.0	503.2	496.5	496.5	501.3
52.5°	478.2	473.4	467.7	469.6	476.3
55°	449.4	444.6	437.9	441.7	448.4
57.5°	417.7	413.9	407.2	412.9	420.6
60°	385.1	380.3	374.5	382.2	391.8
62.5°	351.5	347.6	342.8	352.4	363.0
65°	317.9	314.0	310.2	320.7	330.3
67.5°	285.2	280.4	276.6	286.2	292.9
70°	246.8	243.9	241.0	242.9	245.8
72.5°	212.2	209.3	206.5	198.8	195.9
75°	176.7	173.8	167.1	150.8	145.0
77.5°	142.1	139.2	126.8	112.4	113.3
80°	107.6	104.7	90.3	93.1	96.0
82.5°	73.9	70.1	67.2	66.3	66.3
85°	39.4	39.4	40.3	39.4	39.4
87.5°	16.3	17.3	17.3	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)