

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: P393269

Luminaire Tested: **22EN-LD2-25-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393269
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 (4000K)
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: 2069.2 lumens
Efficiency: N/A
Efficacy: 115.0 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

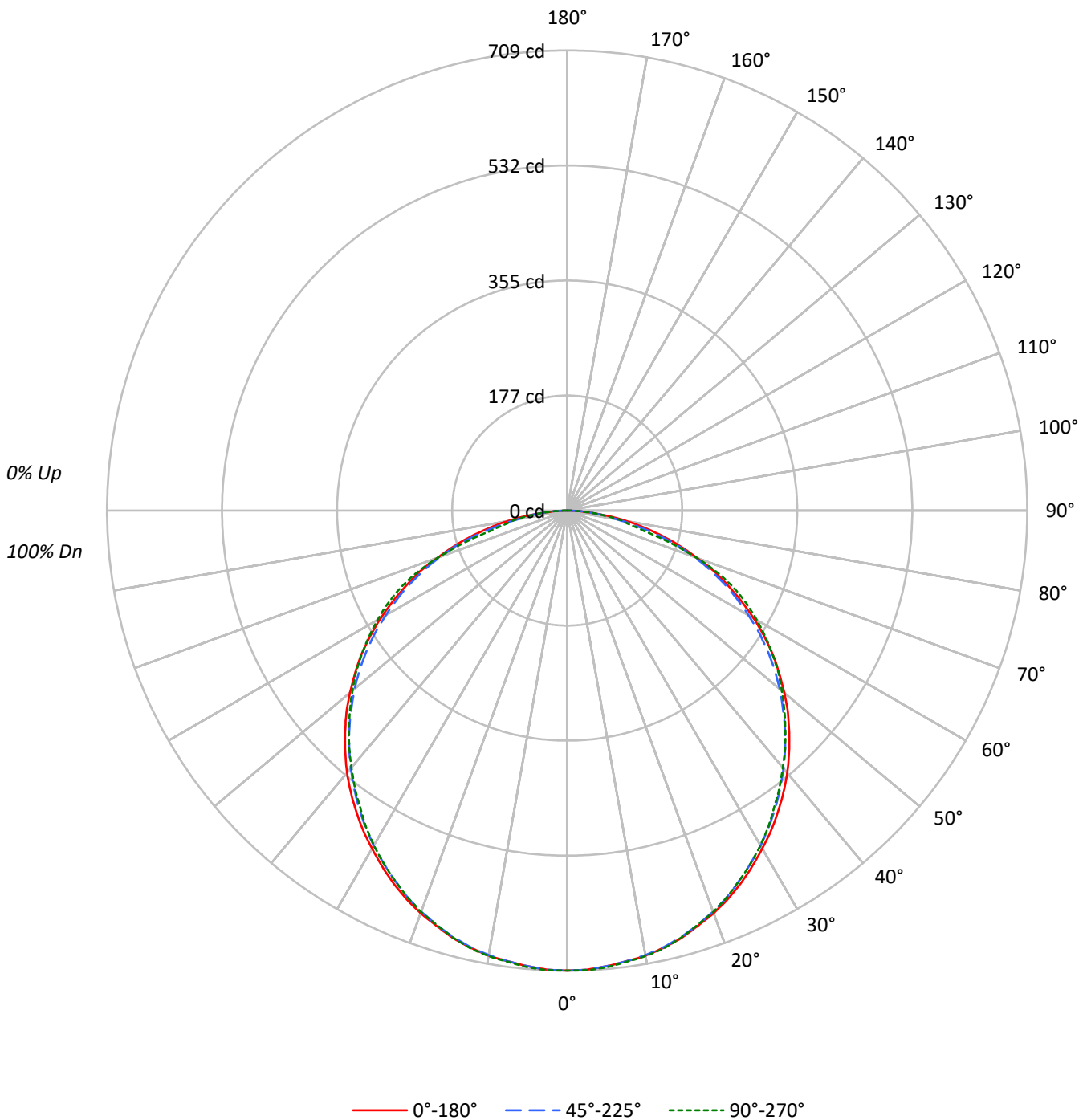
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1907	1907	1907
5°	1903	1903	1908
10°	1903	1900	1905
15°	1899	1894	1896
20°	1890	1883	1885
25°	1881	1866	1866
30°	1868	1853	1850
35°	1861	1837	1828
40°	1853	1822	1816
45°	1841	1807	1810
50°	1828	1790	1807
55°	1816	1769	1812
60°	1785	1736	1816
65°	1743	1701	1812
70°	1672	1633	1666
75°	1582	1496	1299
80°	1435	1204	1282
85°	1047	1071	1047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	3.2
10°-20°	191.9	9.3
20°-30°	290.2	14.0
30°-40°	350.5	16.9
40°-50°	367.9	17.8
50°-60°	340.9	16.5
60°-70°	269.1	13.0
70°-80°	150.9	7.3
80°-90°	40.7	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°	549.1	26.5
0°-40°	899.6	43.5
0°-60°	1608.4	77.7
0°-90°	2069.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	705	704	705	706	706	67
15°	682	680	680	680	681	192
25°	634	631	628	627	628	292
35°	566	564	559	556	557	355
45°	484	480	475	472	476	373
55°	387	383	377	380	386	345
65°	274	270	267	276	284	271
75°	152	150	144	130	125	161
85°	34	34	35	34	34	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.8	708.8	708.8	708.8	708.8
2.5°	707.9	707.1	707.9	707.9	708.8
5°	704.6	703.8	704.6	705.5	706.3
7.5°	700.5	699.7	700.5	701.3	701.3
10°	696.4	694.7	695.5	696.4	697.2
12.5°	689.7	688.9	688.9	688.9	690.6
15°	681.5	679.8	679.8	679.8	680.7
17.5°	670.7	669.9	669.1	669.1	669.1
20°	660.0	658.3	657.5	656.7	658.3
22.5°	647.6	645.9	644.3	642.6	644.3
25°	633.5	631.0	628.5	626.9	628.5
27.5°	617.8	616.1	612.8	610.4	612.8
30°	601.3	598.8	596.3	593.8	595.5
32.5°	584.7	582.2	578.1	574.8	577.3
35°	566.5	564.0	559.1	555.8	556.6
37.5°	547.5	544.2	539.2	535.9	537.6
40°	527.6	524.3	518.6	514.4	516.9
42.5°	506.1	502.8	497.0	494.6	497.0
45°	483.8	479.7	474.7	472.2	475.5
47.5°	461.5	458.2	450.7	450.7	454.0
50°	436.7	433.4	427.6	427.6	431.7
52.5°	411.9	407.7	402.8	404.4	410.2
55°	387.1	382.9	377.1	380.4	386.2
57.5°	359.8	356.5	350.7	355.6	362.2
60°	331.6	327.5	322.5	329.2	337.4
62.5°	302.7	299.4	295.3	303.5	312.6
65°	273.7	270.4	267.1	276.2	284.5
67.5°	245.6	241.5	238.2	246.5	252.2
70°	212.5	210.1	207.6	209.2	211.7
72.5°	182.8	180.3	177.8	171.2	168.7
75°	152.2	149.7	143.9	129.8	124.9
77.5°	122.4	119.9	109.2	96.8	97.6
80°	92.6	90.1	77.7	80.2	82.7
82.5°	63.7	60.4	57.9	57.1	57.1
85°	33.9	33.9	34.7	33.9	33.9
87.5°	14.1	14.9	14.9	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)