

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: P393267

Luminaire Tested: **22EN-LD2-25-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393267  
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 (3000K)  
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: 1936.9 lumens  
Efficiency: N/A  
Efficacy: 107.6 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

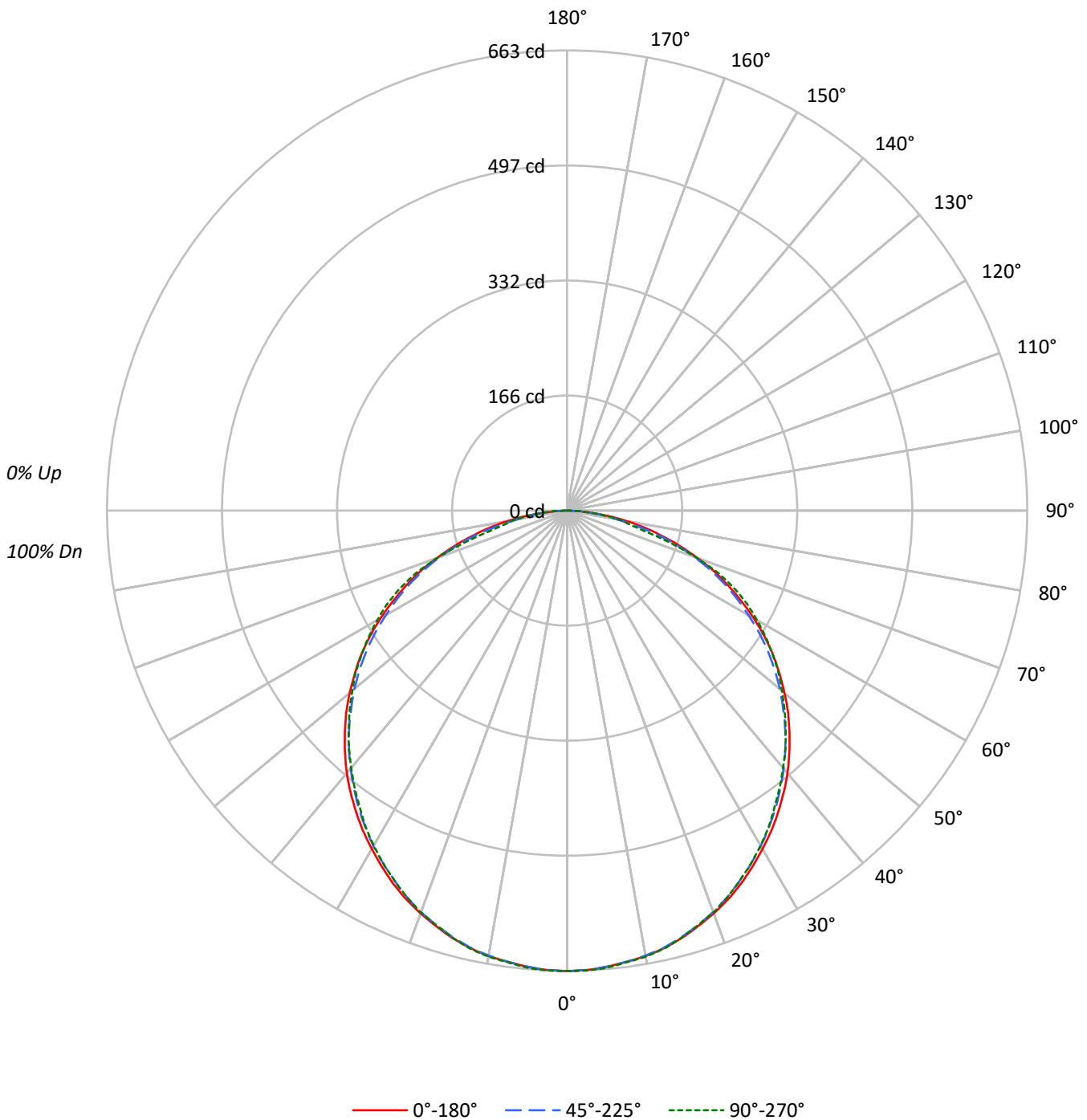
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1785	1785	1785
5°	1782	1782	1786
10°	1781	1779	1783
15°	1777	1773	1775
20°	1769	1763	1765
25°	1761	1747	1747
30°	1749	1734	1732
35°	1742	1719	1712
40°	1735	1705	1700
45°	1724	1691	1694
50°	1711	1675	1692
55°	1700	1656	1696
60°	1671	1625	1700
65°	1631	1592	1696
70°	1566	1529	1559
75°	1481	1400	1215
80°	1344	1128	1199
85°	979	1003	979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.7	3.2
10°-20°	179.6	9.3
20°-30°	271.6	14.0
30°-40°	328.1	16.9
40°-50°	344.4	17.8
50°-60°	319.1	16.5
60°-70°	251.9	13.0
70°-80°	141.3	7.3
80°-90°	38.1	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°	514.0	26.5
0°-40°	842.1	43.5
0°-60°	1505.6	77.7
0°-90°	1936.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1936.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	663	663	663	663	663	
5°	660	659	660	660	661	63
15°	638	636	636	636	637	180
25°	593	591	588	587	588	273
35°	530	528	523	520	521	332
45°	453	449	444	442	445	350
55°	362	358	353	356	362	323
65°	256	253	250	259	266	253
75°	142	140	135	122	117	151
85°	32	32	32	32	32	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	663.4	663.4	663.4	663.4	663.4
2.5°	662.7	661.9	662.7	662.7	663.4
5°	659.6	658.8	659.6	660.4	661.1
7.5°	655.7	654.9	655.7	656.5	656.5
10°	651.8	650.3	651.1	651.8	652.6
12.5°	645.6	644.9	644.9	644.9	646.4
15°	637.9	636.4	636.4	636.4	637.1
17.5°	627.8	627.1	626.3	626.3	626.3
20°	617.8	616.2	615.5	614.7	616.2
22.5°	606.2	604.6	603.1	601.5	603.1
25°	593.0	590.7	588.4	586.8	588.4
27.5°	578.3	576.7	573.6	571.3	573.6
30°	562.8	560.5	558.2	555.8	557.4
32.5°	547.3	545.0	541.1	538.0	540.4
35°	530.3	528.0	523.3	520.2	521.0
37.5°	512.5	509.4	504.7	501.7	503.2
40°	493.9	490.8	485.4	481.5	483.8
42.5°	473.8	470.7	465.3	462.9	465.3
45°	452.9	449.0	444.4	442.0	445.1
47.5°	432.0	428.9	421.9	421.9	425.0
50°	408.8	405.7	400.2	400.2	404.1
52.5°	385.5	381.7	377.0	378.6	384.0
55°	362.3	358.4	353.0	356.1	361.5
57.5°	336.8	333.7	328.2	332.9	339.1
60°	310.4	306.6	301.9	308.1	315.9
62.5°	283.3	280.2	276.4	284.1	292.6
65°	256.2	253.1	250.1	258.6	266.3
67.5°	229.9	226.1	223.0	230.7	236.1
70°	199.0	196.6	194.3	195.9	198.2
72.5°	171.1	168.8	166.4	160.2	157.9
75°	142.4	140.1	134.7	121.5	116.9
77.5°	114.6	112.3	102.2	90.6	91.4
80°	86.7	84.4	72.8	75.1	77.4
82.5°	59.6	56.5	54.2	53.4	53.4
85°	31.7	31.7	32.5	31.7	31.7
87.5°	13.2	13.9	13.9	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)