

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: P393266

Luminaire Tested: **22EN-LD2-25-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393266  
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 (2700K)  
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: 1877.8 lumens  
Efficiency: N/A  
Efficacy: 104.9 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

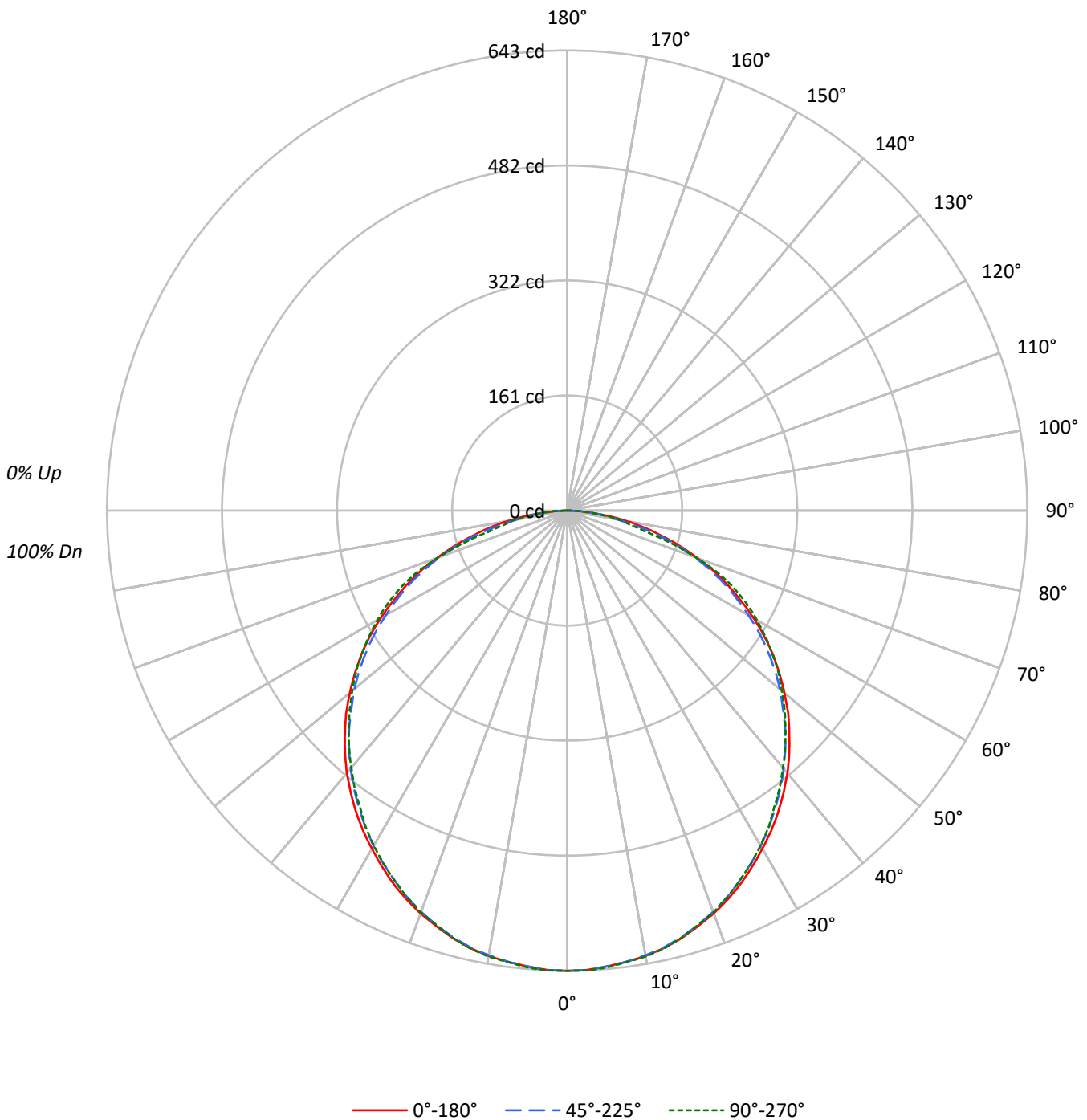
Input Watts (W): 17.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1731	1731	1731
5°	1727	1727	1731
10°	1727	1725	1729
15°	1723	1719	1721
20°	1715	1709	1711
25°	1707	1694	1694
30°	1695	1681	1679
35°	1689	1667	1659
40°	1682	1653	1648
45°	1671	1639	1642
50°	1659	1624	1640
55°	1648	1605	1644
60°	1620	1575	1648
65°	1582	1543	1644
70°	1518	1482	1511
75°	1436	1358	1178
80°	1303	1093	1164
85°	951	973	951



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	3.2
10°-20°	174.1	9.3
20°-30°	263.3	14.0
30°-40°	318.1	16.9
40°-50°	333.9	17.8
50°-60°	309.4	16.5
60°-70°	244.2	13.0
70°-80°	137.0	7.3
80°-90°	37.0	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°	498.3	26.5
0°-40°	816.4	43.5
0°-60°	1459.6	77.7
0°-90°	1877.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1877.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	643	643	643	643	643	
5°	639	639	639	640	641	61
15°	618	617	617	617	618	174
25°	575	573	570	569	570	265
35°	514	512	507	504	505	322
45°	439	435	431	428	432	339
55°	351	348	342	345	350	313
65°	248	245	242	251	258	246
75°	138	136	131	118	113	146
85°	31	31	32	31	31	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	643.2	643.2	643.2	643.2	643.2
2.5°	642.4	641.7	642.4	642.4	643.2
5°	639.4	638.7	639.4	640.2	640.9
7.5°	635.7	634.9	635.7	636.4	636.4
10°	631.9	630.4	631.2	631.9	632.7
12.5°	625.9	625.2	625.2	625.2	626.7
15°	618.4	616.9	616.9	616.9	617.7
17.5°	608.7	607.9	607.2	607.2	607.2
20°	598.9	597.4	596.7	595.9	597.4
22.5°	587.6	586.1	584.6	583.1	584.6
25°	574.9	572.6	570.4	568.9	570.4
27.5°	560.6	559.1	556.1	553.9	556.1
30°	545.6	543.4	541.1	538.9	540.4
32.5°	530.6	528.4	524.6	521.6	523.9
35°	514.1	511.8	507.3	504.3	505.1
37.5°	496.8	493.8	489.3	486.3	487.8
40°	478.8	475.8	470.6	466.8	469.1
42.5°	459.3	456.3	451.1	448.8	451.1
45°	439.0	435.3	430.8	428.5	431.5
47.5°	418.8	415.8	409.0	409.0	412.0
50°	396.3	393.3	388.0	388.0	391.8
52.5°	373.8	370.0	365.5	367.0	372.3
55°	351.2	347.5	342.2	345.2	350.5
57.5°	326.5	323.5	318.2	322.7	328.7
60°	301.0	297.2	292.7	298.7	306.2
62.5°	274.7	271.7	267.9	275.4	283.7
65°	248.4	245.4	242.4	250.7	258.2
67.5°	222.9	219.1	216.1	223.7	228.9
70°	192.9	190.6	188.4	189.9	192.1
72.5°	165.9	163.6	161.4	155.4	153.1
75°	138.1	135.8	130.6	117.8	113.3
77.5°	111.1	108.8	99.1	87.8	88.6
80°	84.1	81.8	70.5	72.8	75.1
82.5°	57.8	54.8	52.5	51.8	51.8
85°	30.8	30.8	31.5	30.8	30.8
87.5°	12.8	13.5	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)