

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: P393281

Luminaire Tested: **22EN-LD2-25-UNV-L93050-W2A-1-U (6500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393281  
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-L93050-W2A-1-U (6500K)  
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: 2207.2 lumens  
Efficiency: N/A  
Efficacy: 124.0 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

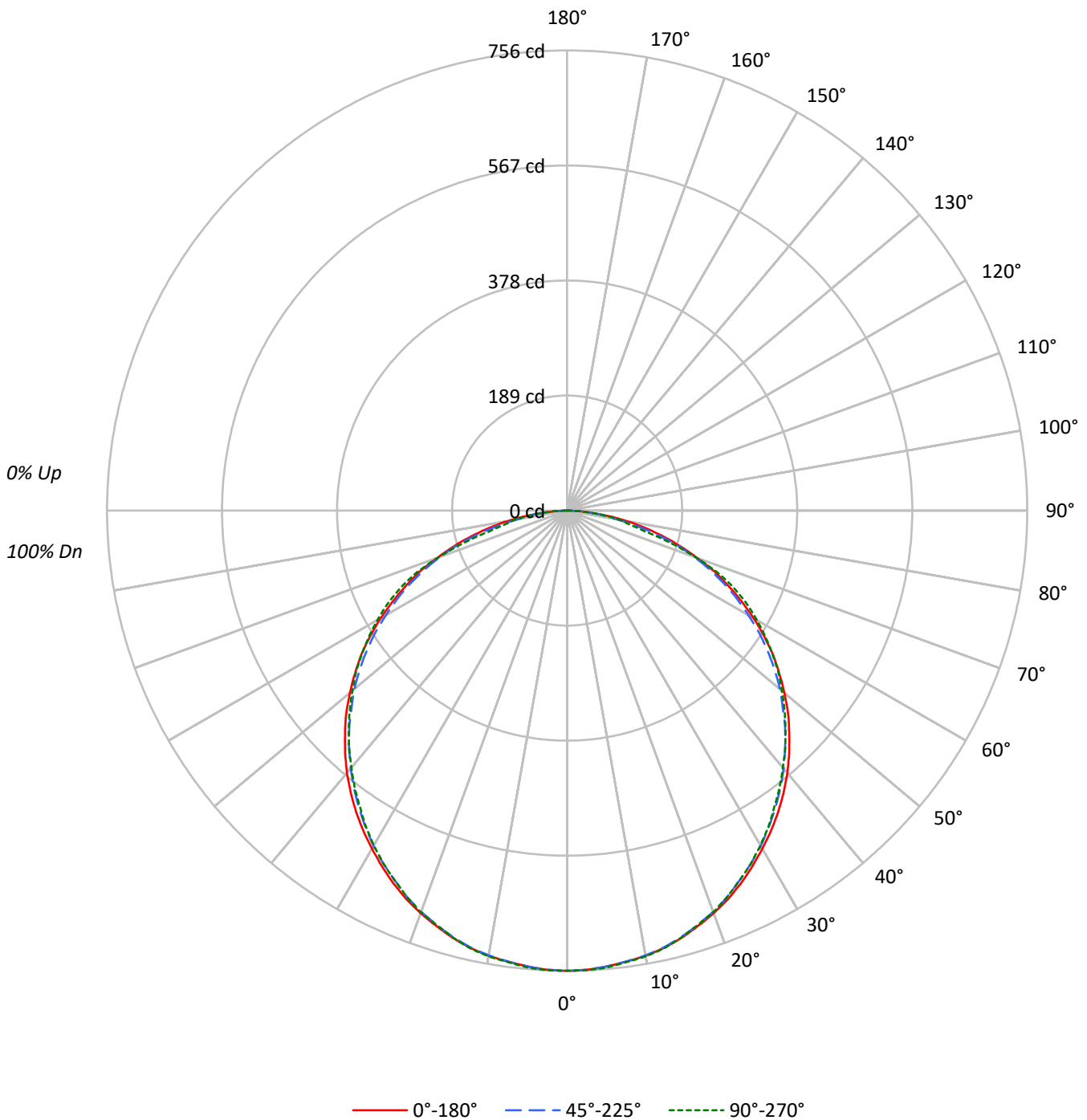
Input Watts (W): 17.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2034	2034	2034
5°	2030	2030	2035
10°	2030	2027	2032
15°	2025	2020	2023
20°	2016	2008	2011
25°	2006	1991	1991
30°	1993	1976	1973
35°	1985	1959	1950
40°	1977	1943	1937
45°	1964	1927	1930
50°	1950	1909	1928
55°	1937	1887	1933
60°	1904	1851	1937
65°	1859	1814	1933
70°	1784	1742	1777
75°	1687	1596	1385
80°	1531	1285	1367
85°	1118	1145	1118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.5	3.2
10°-20°	204.7	9.3
20°-30°	309.5	14.0
30°-40°	373.9	16.9
40°-50°	392.5	17.8
50°-60°	363.6	16.5
60°-70°	287.1	13.0
70°-80°	161.0	7.3
80°-90°	43.5	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°	585.7	26.5
0°-40°	959.6	43.5
0°-60°	1715.6	77.7
0°-90°	2207.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2207.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	752	751	752	752	753	71
15°	727	725	725	725	726	205
25°	676	673	670	669	670	311
35°	604	602	596	593	594	378
45°	516	512	506	504	507	398
55°	413	408	402	406	412	368
65°	292	288	285	295	304	289
75°	162	160	154	138	133	172
85°	36	36	37	36	36	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	756.0	756.0	756.0	756.0	756.0
2.5°	755.1	754.2	755.1	755.1	756.0
5°	751.6	750.7	751.6	752.5	753.4
7.5°	747.2	746.3	747.2	748.1	748.1
10°	742.8	741.0	741.9	742.8	743.7
12.5°	735.7	734.8	734.8	734.8	736.6
15°	726.9	725.1	725.1	725.1	726.0
17.5°	715.4	714.5	713.7	713.7	713.7
20°	704.0	702.2	701.3	700.4	702.2
22.5°	690.7	689.0	687.2	685.4	687.2
25°	675.7	673.1	670.4	668.7	670.4
27.5°	659.0	657.2	653.7	651.0	653.7
30°	641.3	638.7	636.0	633.4	635.1
32.5°	623.7	621.0	616.6	613.1	615.7
35°	604.3	601.6	596.3	592.8	593.7
37.5°	584.0	580.5	575.2	571.6	573.4
40°	562.8	559.3	553.1	548.7	551.3
42.5°	539.9	536.3	530.2	527.5	530.2
45°	516.1	511.6	506.4	503.7	507.2
47.5°	492.2	488.7	480.8	480.8	484.3
50°	465.8	462.2	456.1	456.1	460.5
52.5°	439.3	434.9	429.6	431.4	437.5
55°	412.8	408.4	402.3	405.8	412.0
57.5°	383.7	380.2	374.0	379.3	386.4
60°	353.7	349.3	344.0	351.1	359.9
62.5°	322.9	319.3	314.9	323.7	333.5
65°	292.0	288.5	284.9	294.6	303.5
67.5°	262.0	257.6	254.1	262.9	269.1
70°	226.7	224.1	221.4	223.2	225.8
72.5°	195.0	192.3	189.7	182.6	180.0
75°	162.3	159.7	153.5	138.5	133.2
77.5°	130.6	127.9	116.4	103.2	104.1
80°	98.8	96.2	82.9	85.6	88.2
82.5°	67.9	64.4	61.8	60.9	60.9
85°	36.2	36.2	37.1	36.2	36.2
87.5°	15.0	15.9	15.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)