

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: P393283

Luminaire Tested: **22EN-LD2-30-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-30-UNV-L82765-W2A-1-U (3000K)  
Description: 2X2 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2751.1 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

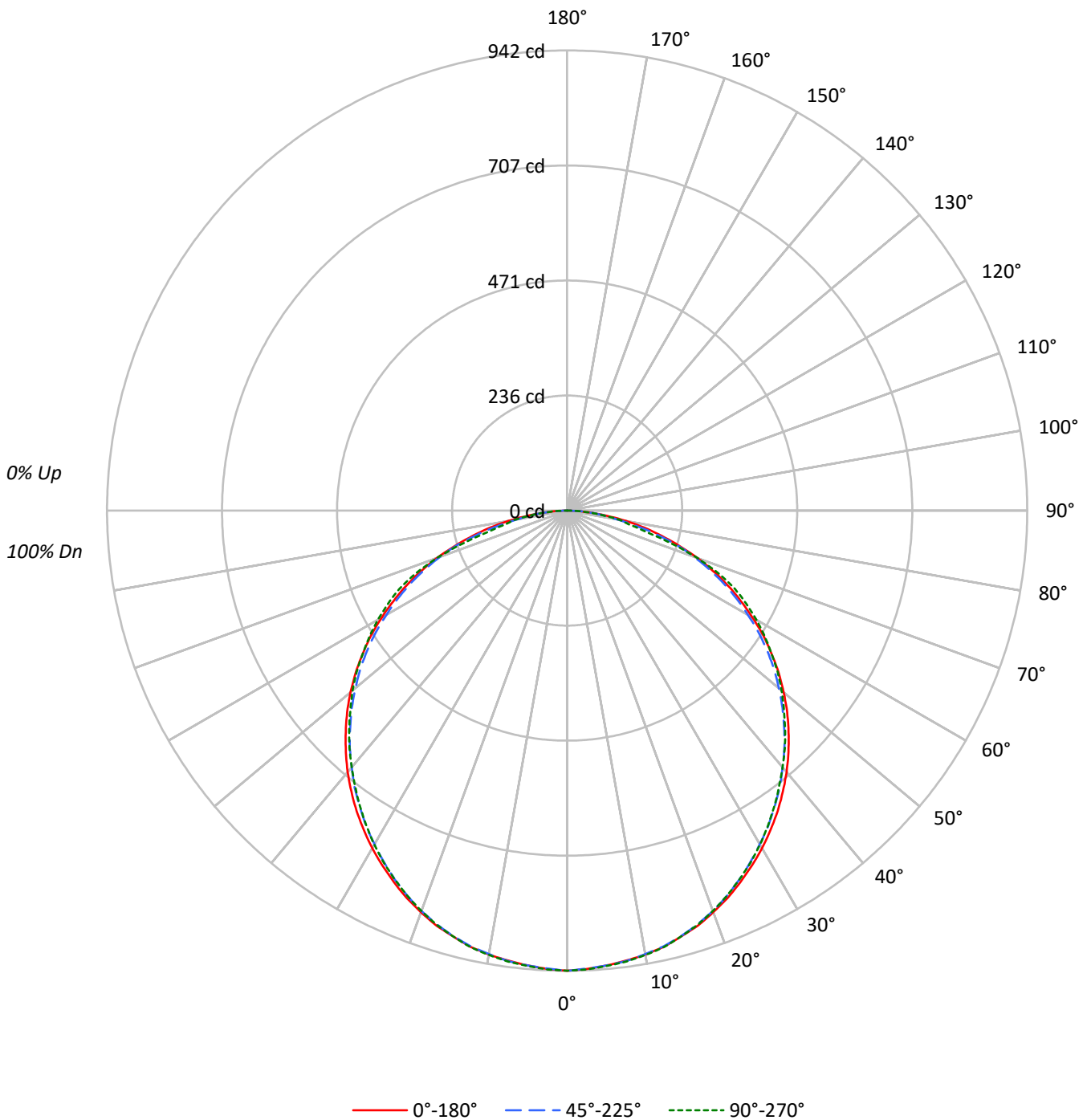
Input Watts (W): 21.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2535	2535	2535
5°	2525	2525	2527
10°	2521	2519	2524
15°	2514	2512	2514
20°	2506	2498	2498
25°	2492	2476	2476
30°	2480	2451	2454
35°	2468	2432	2429
40°	2455	2410	2410
45°	2440	2391	2401
50°	2423	2369	2400
55°	2397	2345	2397
60°	2359	2300	2409
65°	2313	2254	2412
70°	2230	2179	2230
75°	2079	1984	1717
80°	1891	1605	1691
85°	1386	1417	1359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	3.2
10°-20°	255.2	9.3
20°-30°	385.8	14.0
30°-40°	466.0	16.9
40°-50°	489.2	17.8
50°-60°	452.9	16.5
60°-70°	358.2	13.0
70°-80°	200.9	7.3
80°-90°	53.9	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°	730.0	26.5
0°-40°	1196.0	43.5
0°-60°	2138.1	77.7
0°-90°	2751.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	935	944	935	936	936	89
15°	902	912	902	901	902	255
25°	839	847	834	831	834	387
35°	751	757	740	736	739	470
45°	641	645	628	626	631	495
55°	511	512	500	504	511	457
65°	363	363	354	366	379	359
75°	200	201	191	172	165	212
85°	45	45	46	45	44	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	942.0	942.0	942.0	942.0	942.0
2.5°	939.2	947.5	938.3	939.2	940.1
5°	934.6	943.8	934.6	935.6	935.6
7.5°	929.1	938.3	930.1	929.1	931.0
10°	922.7	931.9	921.8	922.7	923.6
12.5°	914.5	922.7	913.5	913.5	915.4
15°	902.5	911.7	901.6	900.7	902.5
17.5°	890.6	898.0	887.9	887.0	888.8
20°	875.0	883.3	872.3	870.4	872.3
22.5°	858.5	865.9	853.9	852.1	853.9
25°	839.3	846.6	833.8	831.0	833.8
27.5°	819.1	825.5	811.7	809.0	812.7
30°	798.0	804.4	788.8	786.1	789.7
32.5°	775.0	780.6	765.9	761.3	765.0
35°	751.2	756.7	740.2	736.5	739.3
37.5°	725.5	731.0	714.5	710.8	712.7
40°	698.9	703.5	686.1	682.4	686.1
42.5°	670.5	675.1	658.6	655.8	659.5
45°	641.1	644.8	628.3	625.5	631.0
47.5°	610.9	614.5	598.0	597.1	601.7
50°	578.8	581.5	565.9	566.8	573.3
52.5°	545.7	546.7	533.8	536.6	543.0
55°	510.9	511.8	499.9	504.5	510.9
57.5°	476.0	477.0	465.0	470.5	479.7
60°	438.4	439.3	427.4	437.5	447.6
62.5°	400.8	401.7	391.7	402.7	413.7
65°	363.2	363.2	354.0	366.0	378.8
67.5°	323.8	323.8	315.5	327.4	334.8
70°	283.4	284.3	277.0	279.8	283.4
72.5°	241.2	243.1	236.6	226.6	223.8
75°	200.0	200.9	190.8	172.4	165.1
77.5°	161.4	159.6	144.9	128.4	128.4
80°	122.0	120.2	103.6	106.4	109.1
82.5°	81.6	81.6	76.1	75.2	75.2
85°	44.9	44.9	45.9	44.9	44.0
87.5°	19.3	19.3	20.2	20.2	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)