

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: P393291

Luminaire Tested: **22EN-LD2-30-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393291  
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-L83050-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: 2951.3 lumens  
Efficiency: N/A  
Efficacy: 132.9 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

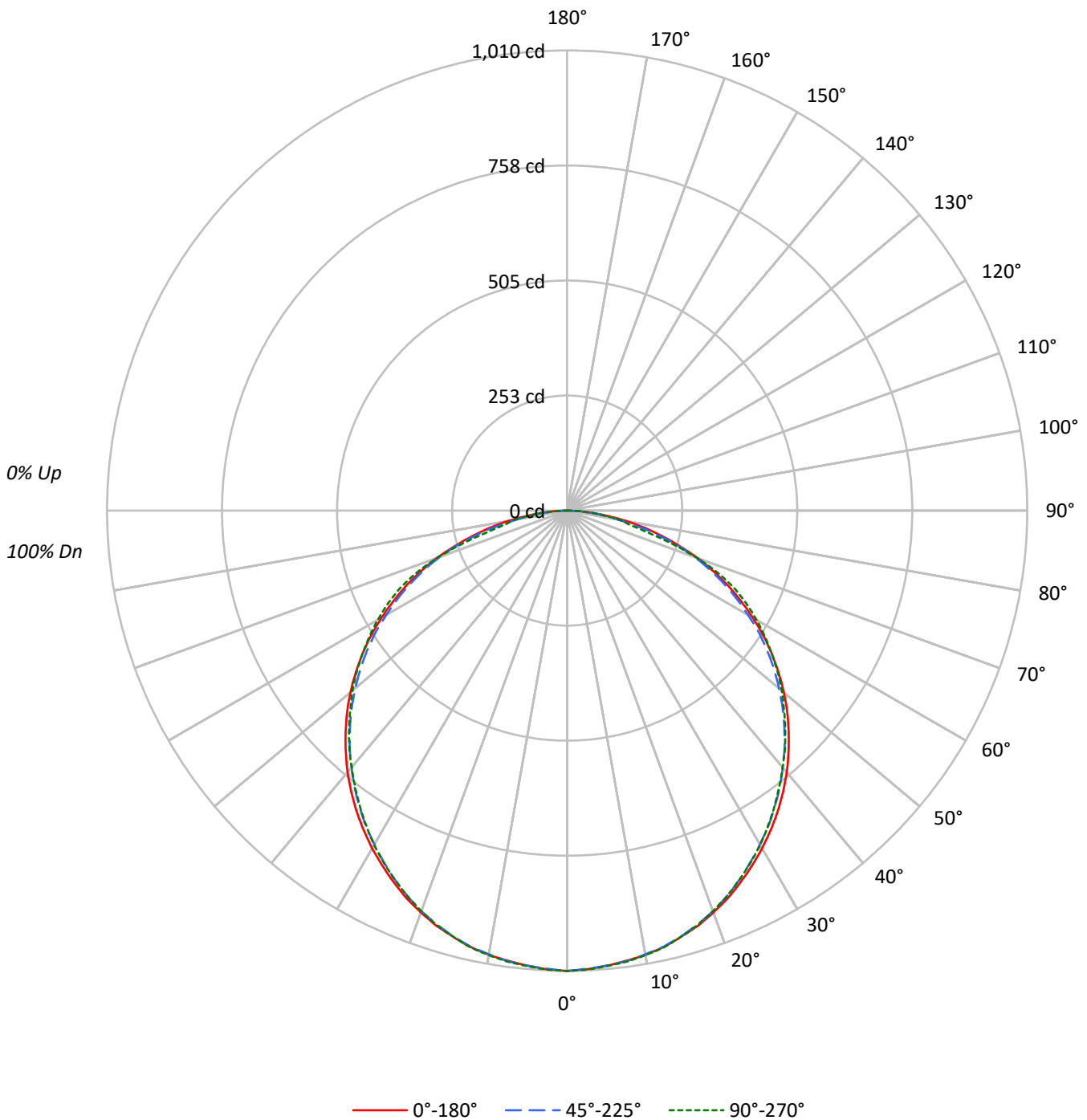
Input Watts (W): 22.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2719	2719	2719
5°	2708	2708	2711
10°	2705	2702	2707
15°	2697	2695	2697
20°	2688	2680	2680
25°	2673	2656	2656
30°	2660	2629	2632
35°	2647	2608	2605
40°	2634	2585	2585
45°	2618	2565	2576
50°	2599	2542	2575
55°	2571	2516	2571
60°	2531	2468	2584
65°	2481	2418	2588
70°	2392	2338	2392
75°	2230	2128	1841
80°	2029	1723	1815
85°	1488	1519	1457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.6	3.2
10°-20°	273.7	9.3
20°-30°	413.9	14.0
30°-40°	499.9	16.9
40°-50°	524.8	17.8
50°-60°	485.9	16.5
60°-70°	384.3	13.0
70°-80°	215.5	7.3
80°-90°	57.8	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°	783.1	26.5
0°-40°	1283.1	43.5
0°-60°	2293.7	77.7
0°-90°	2951.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2951.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1003	1012	1003	1004	1004	95
15°	968	978	967	966	968	273
25°	900	908	894	892	894	415
35°	806	812	794	790	793	504
45°	688	692	674	671	677	531
55°	548	549	536	541	548	490
65°	390	390	380	393	406	385
75°	214	216	205	185	177	228
85°	48	48	49	48	47	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1010.5	1010.5	1010.5	1010.5	1010.5
2.5°	1007.6	1016.4	1006.6	1007.6	1008.5
5°	1002.6	1012.5	1002.6	1003.6	1003.6
7.5°	996.7	1006.6	997.7	996.7	998.7
10°	989.9	999.7	988.9	989.9	990.8
12.5°	981.0	989.9	980.0	980.0	982.0
15°	968.2	978.0	967.2	966.2	968.2
17.5°	955.4	963.3	952.5	951.5	953.4
20°	938.7	947.5	935.7	933.8	935.7
22.5°	921.0	928.8	916.1	914.1	916.1
25°	900.3	908.2	894.4	891.5	894.4
27.5°	878.7	885.6	870.8	867.8	871.8
30°	856.0	862.9	846.2	843.2	847.2
32.5°	831.4	837.3	821.6	816.7	820.6
35°	805.9	811.8	794.0	790.1	793.1
37.5°	778.3	784.2	766.5	762.6	764.5
40°	749.8	754.7	736.0	732.1	736.0
42.5°	719.3	724.2	706.5	703.5	707.5
45°	687.8	691.7	674.0	671.1	677.0
47.5°	655.3	659.2	641.5	640.6	645.5
50°	620.9	623.8	607.1	608.1	615.0
52.5°	585.4	586.4	572.7	575.6	582.5
55°	548.1	549.0	536.3	541.2	548.1
57.5°	510.7	511.7	498.9	504.8	514.6
60°	470.3	471.3	458.5	469.3	480.2
62.5°	430.0	431.0	420.1	432.0	443.8
65°	389.6	389.6	379.8	392.6	406.4
67.5°	347.3	347.3	338.5	351.3	359.1
70°	304.0	305.0	297.2	300.1	304.0
72.5°	258.8	260.7	253.9	243.0	240.1
75°	214.5	215.5	204.7	185.0	177.1
77.5°	173.2	171.2	155.5	137.8	137.8
80°	130.9	128.9	111.2	114.1	117.1
82.5°	87.6	87.6	81.7	80.7	80.7
85°	48.2	48.2	49.2	48.2	47.2
87.5°	20.7	20.7	21.6	21.6	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)