

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: P393293

Luminaire Tested: **22EN-LD2-30-UNV-L83050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393293
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 (4000K)
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: 3012.2 lumens
Efficiency: N/A
Efficacy: 136.9 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

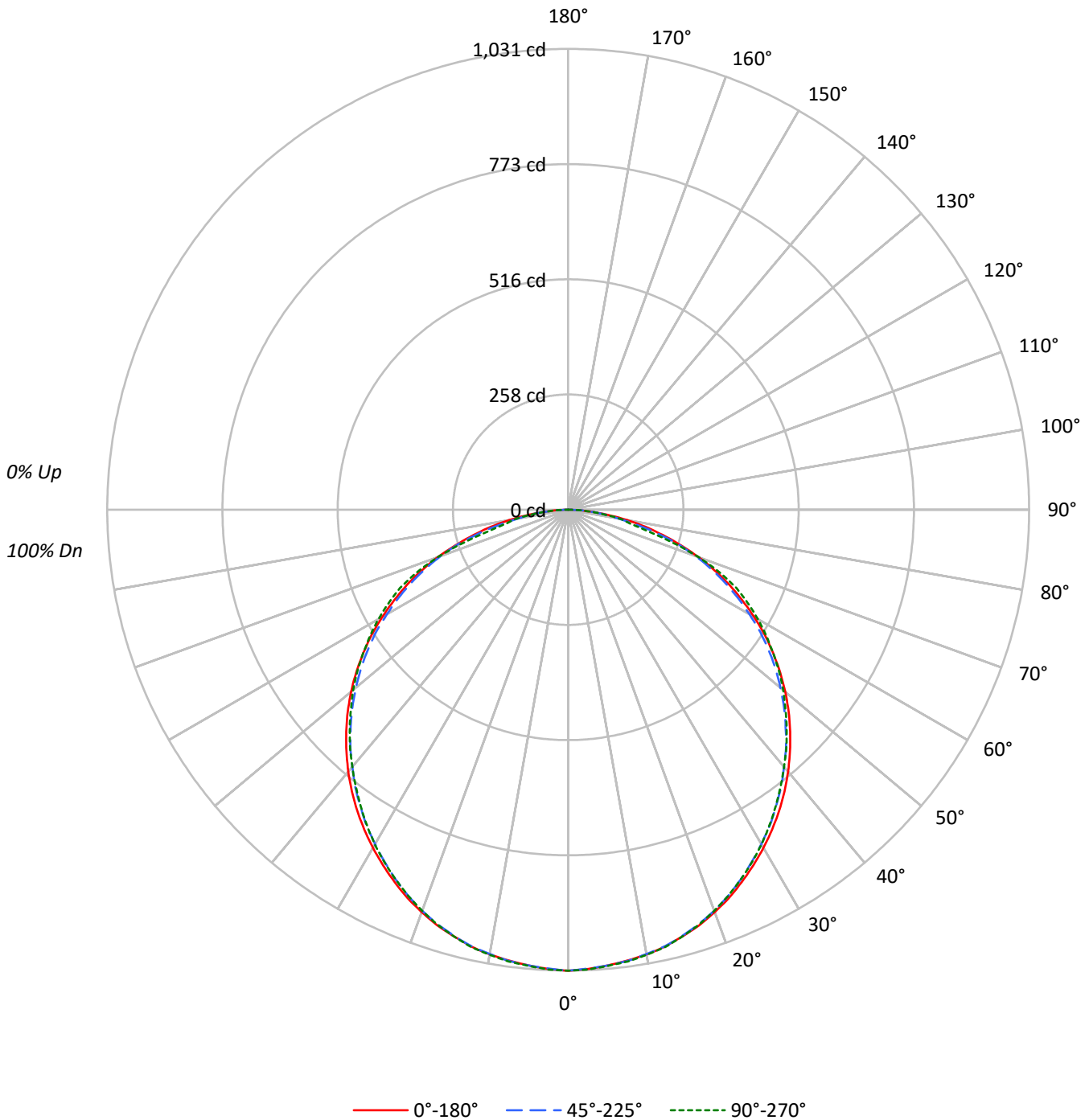
Input Watts (W): 22
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2775	2775	2775
5°	2764	2764	2767
10°	2761	2758	2763
15°	2753	2750	2753
20°	2744	2735	2735
25°	2728	2711	2711
30°	2715	2684	2687
35°	2702	2662	2659
40°	2688	2639	2639
45°	2672	2618	2629
50°	2653	2594	2628
55°	2624	2568	2624
60°	2583	2519	2638
65°	2532	2468	2641
70°	2441	2386	2441
75°	2276	2172	1880
80°	2070	1759	1852
85°	1519	1550	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	3.2
10°-20°	279.4	9.3
20°-30°	422.4	14.0
30°-40°	510.2	16.9
40°-50°	535.6	17.8
50°-60°	495.9	16.5
60°-70°	392.2	13.0
70°-80°	219.9	7.3
80°-90°	59.0	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°	799.3	26.5
0°-40°	1309.5	43.5
0°-60°	2341.0	77.7
0°-90°	3012.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3012.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1023	1033	1023	1024	1024	97
15°	988	998	987	986	988	279
25°	919	927	913	910	913	424
35°	822	828	810	806	809	515
45°	702	706	688	685	691	542
55°	559	560	547	552	559	500
65°	398	398	388	401	415	393
75°	219	220	209	189	181	232
85°	49	49	50	49	48	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1031.4	1031.4	1031.4	1031.4	1031.4
2.5°	1028.4	1037.4	1027.4	1028.4	1029.4
5°	1023.3	1033.4	1023.3	1024.3	1024.3
7.5°	1017.3	1027.4	1018.3	1017.3	1019.3
10°	1010.3	1020.3	1009.3	1010.3	1011.3
12.5°	1001.2	1010.3	1000.2	1000.2	1002.2
15°	988.2	998.2	987.2	986.2	988.2
17.5°	975.1	983.2	972.1	971.1	973.1
20°	958.1	967.1	955.0	953.0	955.0
22.5°	940.0	948.0	935.0	933.0	935.0
25°	918.9	926.9	912.9	909.9	912.9
27.5°	896.8	903.8	888.8	885.8	889.8
30°	873.7	880.7	863.7	860.6	864.7
32.5°	848.6	854.6	838.6	833.5	837.5
35°	822.5	828.5	810.4	806.4	809.4
37.5°	794.4	800.4	782.3	778.3	780.3
40°	765.2	770.3	751.2	747.2	751.2
42.5°	734.1	739.1	721.1	718.0	722.1
45°	702.0	706.0	687.9	684.9	690.9
47.5°	668.8	672.8	654.8	653.8	658.8
50°	633.7	636.7	619.6	620.6	627.7
52.5°	597.5	598.5	584.5	587.5	594.5
55°	559.4	560.4	547.3	552.3	559.4
57.5°	521.2	522.2	509.2	515.2	525.2
60°	480.0	481.0	468.0	479.0	490.1
62.5°	438.9	439.9	428.8	440.9	452.9
65°	397.7	397.7	387.6	400.7	414.8
67.5°	354.5	354.5	345.5	358.5	366.6
70°	310.3	311.3	303.3	306.3	310.3
72.5°	264.1	266.1	259.1	248.1	245.0
75°	218.9	219.9	208.9	188.8	180.8
77.5°	176.7	174.7	158.7	140.6	140.6
80°	133.6	131.6	113.5	116.5	119.5
82.5°	89.4	89.4	83.4	82.3	82.3
85°	49.2	49.2	50.2	49.2	48.2
87.5°	21.1	21.1	22.1	22.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)