

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: P393341

Luminaire Tested: **22EN-LD2-34-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-34-UNV-L93050-W2A-1-U (4000K)
Description: 2X2 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2995.4 lumens
Efficiency: N/A
Efficacy: 117.9 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

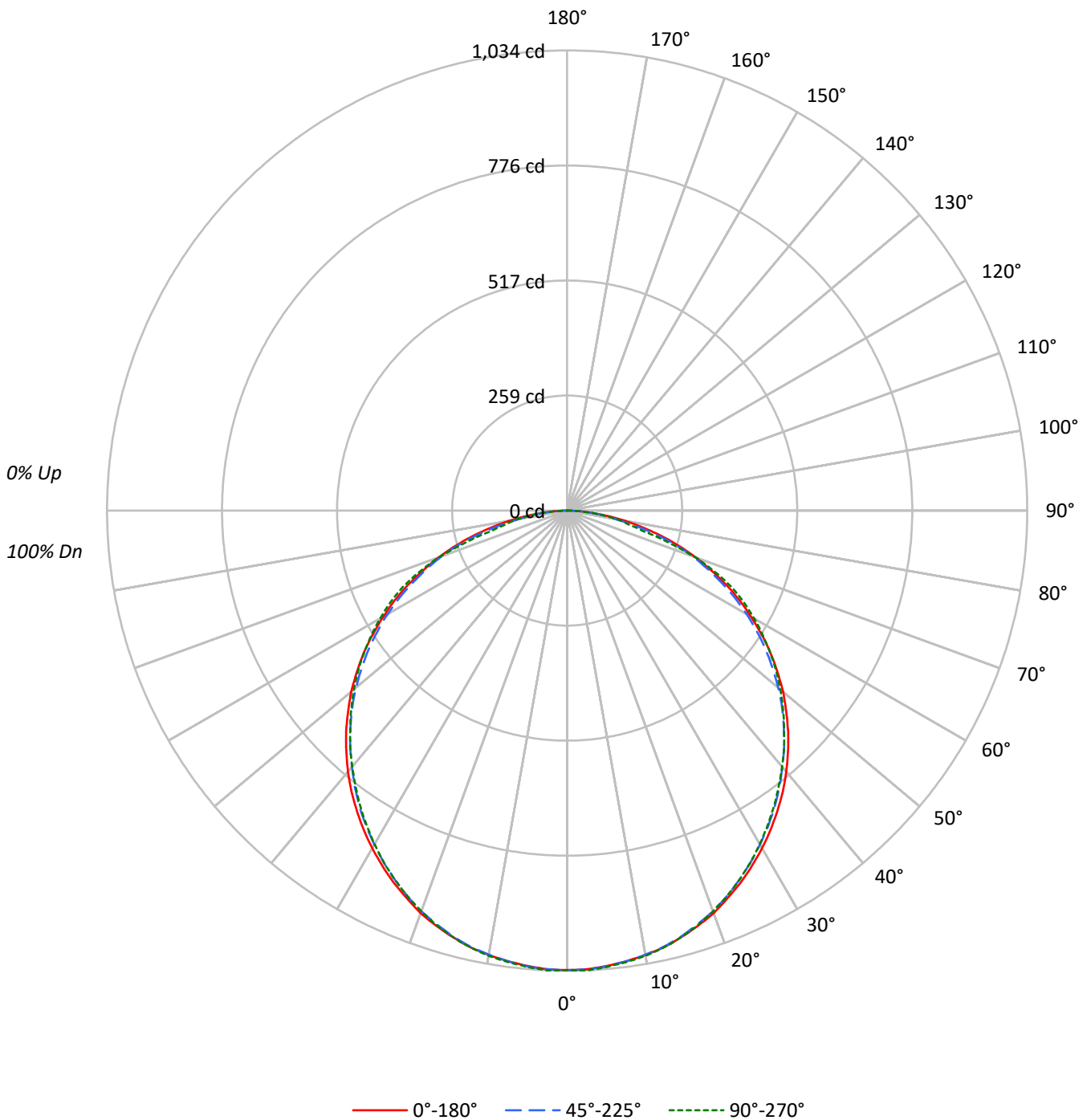
Input Watts (W): 25.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2778	2778	2778
5°	2775	2777	2780
10°	2771	2769	2776
15°	2764	2760	2764
20°	2757	2744	2744
25°	2739	2718	2718
30°	2722	2692	2690
35°	2706	2671	2663
40°	2691	2642	2639
45°	2673	2619	2623
50°	2651	2593	2618
55°	2619	2557	2615
60°	2567	2511	2614
65°	2509	2436	2603
70°	2412	2357	2412
75°	2261	2135	1826
80°	2030	1706	1827
85°	1510	1538	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	3.3
10°-20°	279.7	9.3
20°-30°	422.6	14.1
30°-40°	509.7	17.0
40°-50°	533.9	17.8
50°-60°	492.2	16.4
60°-70°	386.4	12.9
70°-80°	215.5	7.2
80°-90°	57.6	1.9
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°	799.9	26.7
0°-40°	1309.7	43.7
0°-60°	2335.8	78.0
0°-90°	2995.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1027	1026	1028	1028	1029	98
15°	992	991	991	991	992	280
25°	922	919	915	915	915	425
35°	824	820	813	809	811	516
45°	702	697	688	686	689	541
55°	558	552	545	549	557	498
65°	394	388	383	396	409	389
75°	218	213	205	184	176	230
85°	49	47	50	48	49	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.5	1032.5	1032.5	1032.5	1032.5
2.5°	1031.6	1030.7	1031.6	1032.5	1034.2
5°	1027.2	1026.4	1028.1	1028.1	1029.0
7.5°	1021.1	1020.3	1021.1	1022.0	1022.9
10°	1014.1	1013.3	1013.3	1014.1	1015.9
12.5°	1005.4	1003.7	1003.7	1003.7	1005.4
15°	992.3	990.6	990.6	990.6	992.3
17.5°	978.3	976.6	974.8	974.8	976.6
20°	962.6	960.0	958.2	957.4	958.2
22.5°	942.5	940.8	938.1	936.4	938.1
25°	922.4	918.9	915.4	914.6	915.4
27.5°	899.7	896.2	891.8	890.1	891.8
30°	876.1	871.8	866.5	863.9	865.6
32.5°	850.8	847.3	840.3	837.7	838.6
35°	823.7	820.2	813.2	808.9	810.6
37.5°	795.8	791.4	783.5	779.2	780.9
40°	766.1	760.8	752.1	748.6	751.2
42.5°	734.6	730.3	721.5	718.0	721.5
45°	702.3	697.1	688.3	685.7	689.2
47.5°	667.4	663.9	655.1	654.3	657.7
50°	633.3	627.2	619.3	620.2	625.4
52.5°	595.7	590.5	581.8	585.2	592.2
55°	558.2	552.1	545.1	548.6	557.3
57.5°	518.0	513.6	505.8	511.0	521.5
60°	476.9	473.4	466.5	475.2	485.7
62.5°	436.8	430.6	424.5	435.9	448.1
65°	394.0	387.8	382.6	395.7	408.8
67.5°	349.4	345.0	340.7	351.1	359.9
70°	306.6	302.2	299.6	301.4	306.6
72.5°	262.9	258.6	255.9	246.3	240.2
75°	217.5	213.1	205.3	184.3	175.6
77.5°	173.0	170.3	154.6	136.3	138.9
80°	131.0	126.7	110.1	113.6	117.9
82.5°	89.1	84.7	83.0	80.4	81.2
85°	48.9	47.2	49.8	48.0	48.9
87.5°	19.2	20.1	21.8	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)