

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: P393342

Luminaire Tested: **22EN-LD2-34-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393342
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 (4500K)
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: 3011.1 lumens
Efficiency: N/A
Efficacy: 119.5 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

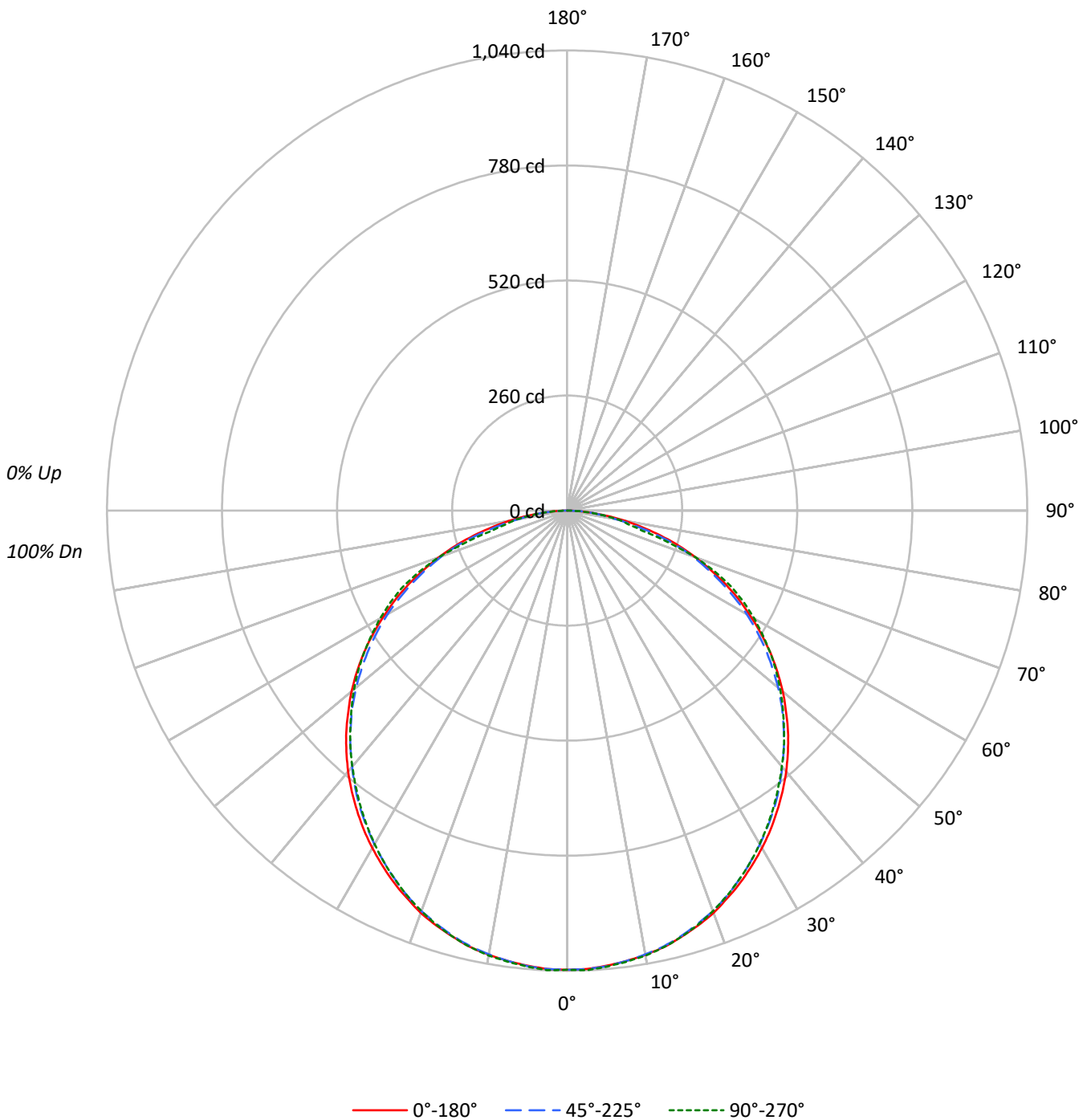
Input Watts (W): 25.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2793	2793	2793
5°	2789	2792	2794
10°	2786	2783	2790
15°	2779	2774	2779
20°	2771	2759	2759
25°	2753	2732	2732
30°	2737	2707	2704
35°	2720	2686	2677
40°	2705	2656	2653
45°	2687	2633	2637
50°	2665	2606	2632
55°	2632	2571	2628
60°	2580	2524	2627
65°	2521	2449	2616
70°	2425	2370	2425
75°	2273	2145	1835
80°	2041	1714	1836
85°	1519	1547	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	3.3
10°-20°	281.1	9.3
20°-30°	424.9	14.1
30°-40°	512.4	17.0
40°-50°	536.7	17.8
50°-60°	494.8	16.4
60°-70°	388.4	12.9
70°-80°	216.7	7.2
80°-90°	57.9	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°	804.1	26.7
0°-40°	1316.5	43.7
0°-60°	2348.0	78.0
0°-90°	3011.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1033	1032	1034	1034	1034	98
15°	998	996	996	996	998	282
25°	927	924	920	919	920	427
35°	828	824	818	813	815	518
45°	706	701	692	689	693	544
55°	561	555	548	551	560	501
65°	396	390	385	398	411	391
75°	219	214	206	185	176	231
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°	1037.9	1037.9	1037.9	1037.9	1037.9
2.5°	1037.0	1036.1	1037.0	1037.9	1039.6
5°	1032.6	1031.7	1033.5	1033.5	1034.4
7.5°	1026.5	1025.6	1026.5	1027.4	1028.2
10°	1019.5	1018.6	1018.6	1019.5	1021.2
12.5°	1010.7	1008.9	1008.9	1008.9	1010.7
15°	997.5	995.7	995.7	995.7	997.5
17.5°	983.5	981.7	979.9	979.9	981.7
20°	967.6	965.0	963.3	962.4	963.3
22.5°	947.5	945.7	943.1	941.3	943.1
25°	927.3	923.7	920.2	919.4	920.2
27.5°	904.4	900.9	896.5	894.8	896.5
30°	880.7	876.3	871.1	868.4	870.2
32.5°	855.3	851.7	844.7	842.1	843.0
35°	828.0	824.5	817.5	813.1	814.9
37.5°	799.9	795.5	787.6	783.2	785.0
40°	770.1	764.8	756.0	752.5	755.2
42.5°	738.5	734.1	725.3	721.8	725.3
45°	706.0	700.7	691.9	689.3	692.8
47.5°	670.9	667.3	658.6	657.7	661.2
50°	636.6	630.5	622.6	623.4	628.7
52.5°	598.9	593.6	584.8	588.3	595.3
55°	561.1	554.9	547.9	551.4	560.2
57.5°	520.7	516.3	508.4	513.7	524.2
60°	479.4	475.9	468.9	477.7	488.2
62.5°	439.0	432.9	426.7	438.2	450.5
65°	396.0	389.9	384.6	397.8	410.9
67.5°	351.2	346.8	342.5	353.0	361.8
70°	308.2	303.8	301.2	302.9	308.2
72.5°	264.3	259.9	257.3	247.6	241.5
75°	218.6	214.3	206.3	185.3	176.5
77.5°	173.9	171.2	155.4	137.0	139.6
80°	131.7	127.3	110.6	114.2	118.5
82.5°	89.6	85.2	83.4	80.8	81.7
85°	49.2	47.4	50.1	48.3	49.2
87.5°	19.3	20.2	22.0	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)