

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: P393338

Luminaire Tested: **22EN-LD2-34-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393338
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 (2700K)
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: 2960.8 lumens
Efficiency: N/A
Efficacy: 116.1 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

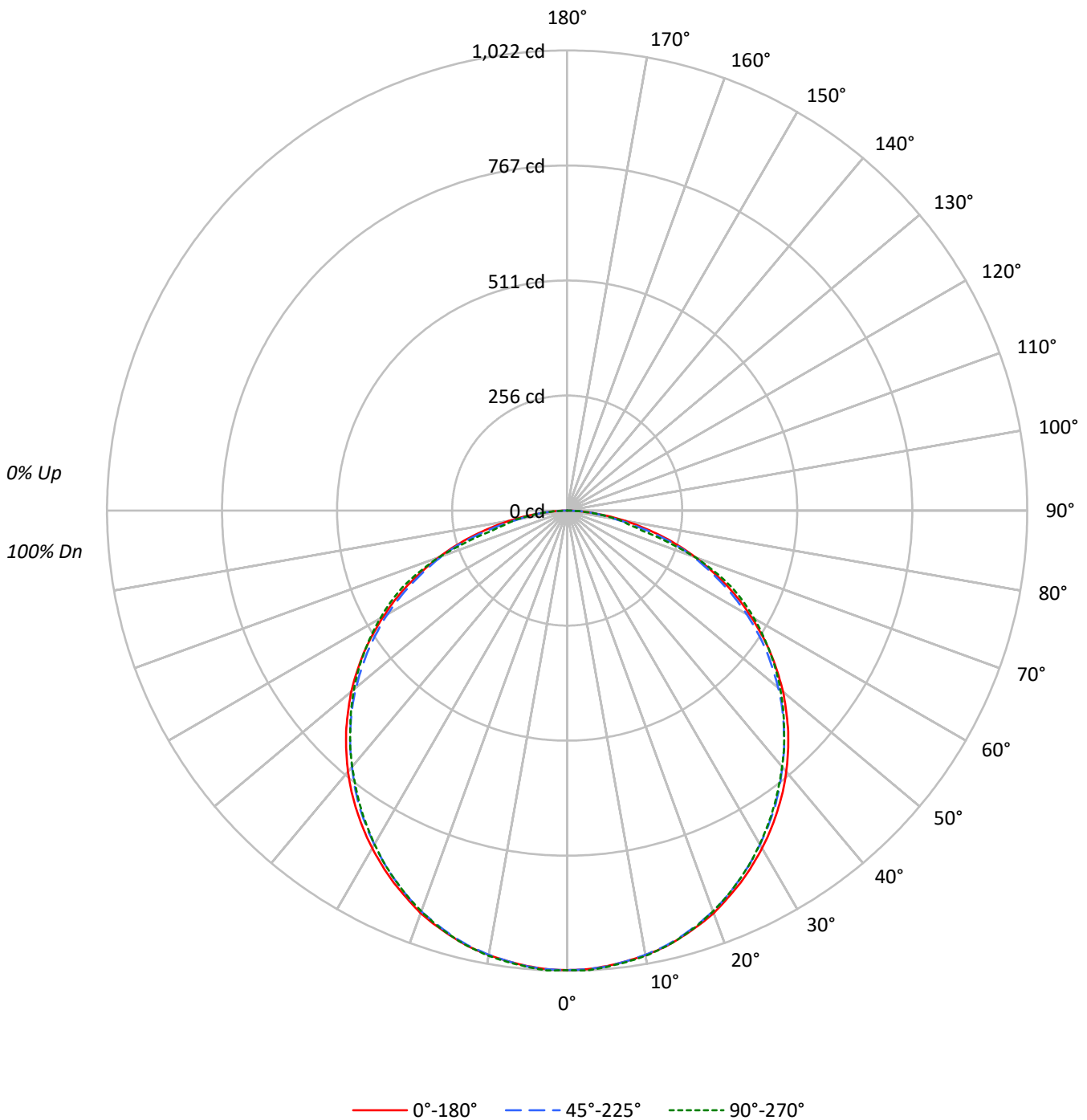
Input Watts (W): 25.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2746	2746	2746
5°	2743	2745	2747
10°	2739	2737	2744
15°	2733	2728	2733
20°	2725	2712	2712
25°	2707	2687	2687
30°	2691	2661	2659
35°	2675	2641	2632
40°	2660	2611	2609
45°	2642	2589	2592
50°	2621	2563	2588
55°	2588	2528	2585
60°	2537	2482	2584
65°	2479	2408	2573
70°	2385	2330	2385
75°	2235	2110	1804
80°	2007	1686	1807
85°	1494	1519	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	3.3
10°-20°	276.4	9.3
20°-30°	417.8	14.1
30°-40°	503.9	17.0
40°-50°	527.7	17.8
50°-60°	486.5	16.4
60°-70°	381.9	12.9
70°-80°	213.1	7.2
80°-90°	57.0	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°	790.7	26.7
0°-40°	1294.6	43.7
0°-60°	2308.8	78.0
0°-90°	2960.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2960.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1015	1014	1016	1016	1017	97
15°	981	979	979	979	981	277
25°	912	908	905	904	905	420
35°	814	811	804	800	801	510
45°	694	689	680	678	681	535
55°	552	546	539	542	551	492
65°	389	383	378	391	404	384
75°	215	211	203	182	174	227
85°	48	47	49	48	48	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.6	1020.6	1020.6	1020.6	1020.6
2.5°	1019.7	1018.8	1019.7	1020.6	1022.3
5°	1015.4	1014.5	1016.3	1016.3	1017.1
7.5°	1009.4	1008.5	1009.4	1010.2	1011.1
10°	1002.4	1001.6	1001.6	1002.4	1004.2
12.5°	993.8	992.1	992.1	992.1	993.8
15°	980.9	979.1	979.1	979.1	980.9
17.5°	967.0	965.3	963.6	963.6	965.3
20°	951.5	948.9	947.2	946.3	947.2
22.5°	931.6	929.9	927.3	925.6	927.3
25°	911.8	908.3	904.9	904.0	904.9
27.5°	889.3	885.9	881.6	879.8	881.6
30°	866.0	861.7	856.5	853.9	855.7
32.5°	841.0	837.5	830.6	828.0	828.9
35°	814.2	810.8	803.9	799.5	801.3
37.5°	786.6	782.3	774.5	770.2	771.9
40°	757.2	752.0	743.4	740.0	742.6
42.5°	726.1	721.8	713.2	709.7	713.2
45°	694.2	689.0	680.4	677.8	681.2
47.5°	659.7	656.2	647.6	646.7	650.2
50°	626.0	619.9	612.2	613.0	618.2
52.5°	588.9	583.7	575.0	578.5	585.4
55°	551.7	545.7	538.8	542.2	550.9
57.5°	512.0	507.7	499.9	505.1	515.5
60°	471.4	468.0	461.1	469.7	480.1
62.5°	431.7	425.7	419.6	430.9	442.9
65°	389.4	383.4	378.2	391.1	404.1
67.5°	345.4	341.1	336.7	347.1	355.7
70°	303.1	298.7	296.2	297.9	303.1
72.5°	259.9	255.6	253.0	243.5	237.4
75°	215.0	210.7	202.9	182.2	173.5
77.5°	171.0	168.4	152.8	134.7	137.3
80°	129.5	125.2	108.8	112.2	116.6
82.5°	88.1	83.8	82.0	79.4	80.3
85°	48.4	46.6	49.2	47.5	48.4
87.5°	19.0	19.9	21.6	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)