

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: P393394

Luminaire Tested: **22EN-LD2-43-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-43-UNV-L92765-W2A-1-U (2700K)
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3224.9 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

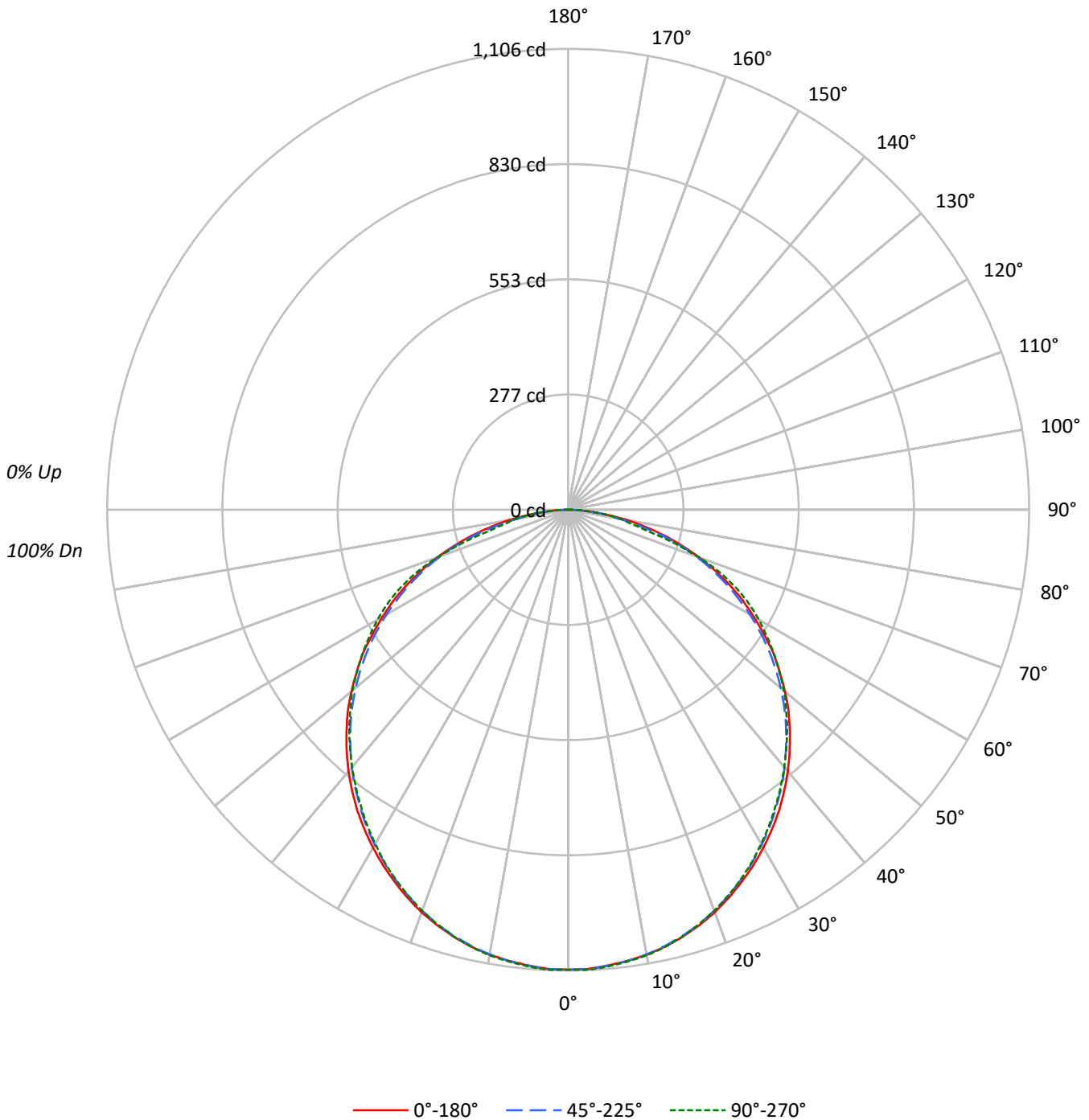
Input Watts (W): 32.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2971	2971	2971
5°	2966	2968	2972
10°	2963	2961	2967
15°	2956	2950	2954
20°	2944	2934	2934
25°	2926	2910	2908
30°	2910	2885	2878
35°	2897	2860	2850
40°	2879	2837	2834
45°	2862	2813	2828
50°	2840	2787	2828
55°	2821	2753	2828
60°	2767	2710	2844
65°	2719	2648	2833
70°	2622	2563	2628
75°	2473	2341	2037
80°	2221	1861	2001
85°	1646	1692	1621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.2
10°-20°	298.9	9.3
20°-30°	452.2	14.0
30°-40°	546.0	16.9
40°-50°	573.2	17.8
50°-60°	530.8	16.5
60°-70°	420.0	13.0
70°-80°	236.2	7.3
80°-90°	63.2	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°	855.5	26.5
0°-40°	1401.5	43.5
0°-60°	2505.5	77.7
0°-90°	3224.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3224.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1098	1097	1099	1099	1100	104
15°	1061	1060	1059	1059	1060	299
25°	985	984	980	979	979	454
35°	882	878	871	866	868	551
45°	752	748	739	737	743	580
55°	601	595	587	592	603	535
65°	427	422	416	432	445	422
75°	238	234	225	206	196	251
85°	53	52	55	52	52	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.0	1104.0	1104.0	1104.0	<i>1104.0</i>
2.5°	<i>1103.2</i>	<i>1102.5</i>	<i>1103.2</i>	<i>1103.2</i>	<i>1105.5</i>
5°	1098.0	1097.2	1098.7	1098.7	<i>1100.2</i>
7.5°	1092.0	1091.2	1092.7	1092.7	<i>1093.5</i>
10°	1084.5	1083.0	1083.7	1084.5	<i>1086.0</i>
12.5°	1074.0	1072.5	1072.5	1073.2	<i>1074.7</i>
15°	1061.2	1059.7	1059.0	1059.0	<i>1060.5</i>
17.5°	1045.5	1043.2	1043.2	1041.7	<i>1043.2</i>
20°	1028.2	1025.9	1024.4	1022.9	<i>1024.4</i>
22.5°	1007.9	1005.7	1003.4	1001.9	<i>1002.7</i>
25°	985.4	983.9	980.2	978.7	<i>979.4</i>
27.5°	962.1	959.9	955.4	952.4	<i>953.9</i>
30°	936.6	933.6	928.4	924.6	<i>926.1</i>
32.5°	909.6	906.6	900.6	896.1	<i>897.6</i>
35°	881.8	878.1	870.6	866.1	<i>867.6</i>
37.5°	851.1	848.1	839.8	835.3	<i>837.6</i>
40°	819.6	816.5	807.5	803.8	<i>806.8</i>
42.5°	786.5	783.5	773.8	770.0	<i>774.5</i>
45°	752.0	748.3	739.2	737.0	<i>743.0</i>
47.5°	717.5	712.2	703.2	701.7	<i>709.2</i>
50°	678.5	674.7	665.7	666.4	<i>675.5</i>
52.5°	639.4	636.4	627.4	630.4	<i>638.7</i>
55°	601.2	595.2	586.9	592.1	<i>602.7</i>
57.5°	556.9	553.1	545.6	553.9	<i>565.1</i>
60°	514.1	511.1	503.6	514.1	<i>528.4</i>
62.5°	472.1	466.1	459.3	474.3	<i>489.3</i>
65°	427.0	421.8	415.8	431.5	<i>445.0</i>
67.5°	380.5	375.3	370.7	385.0	<i>394.8</i>
70°	333.2	328.7	325.7	330.2	<i>334.0</i>
72.5°	285.9	281.4	279.2	268.7	<i>265.7</i>
75°	237.9	234.2	225.2	205.6	<i>195.9</i>
77.5°	189.9	185.4	170.4	151.6	<i>152.4</i>
80°	143.3	138.1	120.1	125.3	<i>129.1</i>
82.5°	97.6	93.8	90.1	88.6	<i>89.3</i>
85°	53.3	51.8	54.8	51.8	<i>52.5</i>
87.5°	21.8	22.5	24.0	23.3	<i>23.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)