

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: P393370

Luminaire Tested: **22EN-LD2-39-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-39-UNV-L93050-W2A-1-U (2700K)
Description: 2X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3394.4 lumens
Efficiency: N/A
Efficacy: 114.3 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

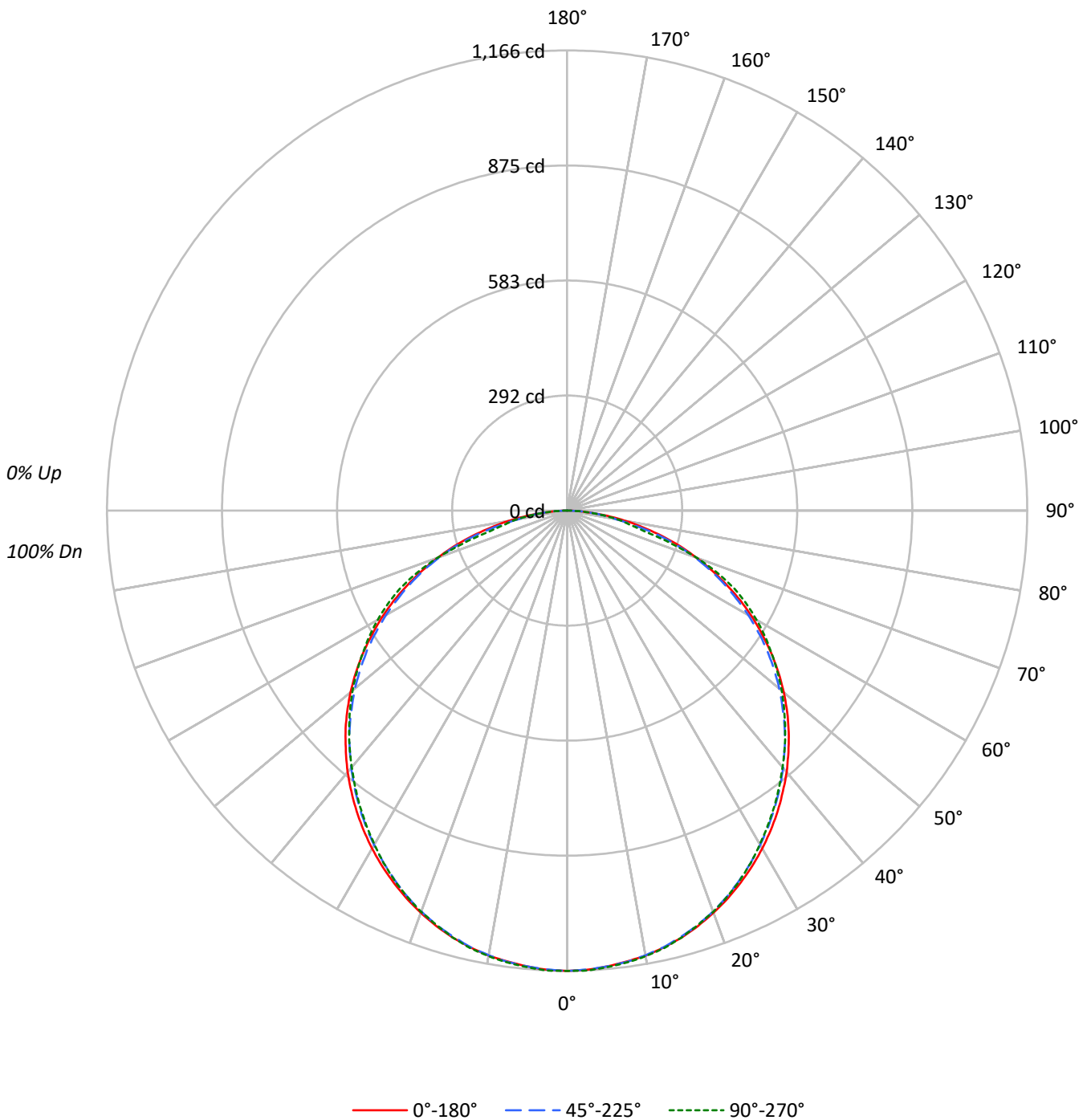
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	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	40	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°	3139	3139	3139
5°	3132	3132	3137
10°	3128	3126	3133
15°	3120	3113	3120
20°	3106	3096	3098
25°	3089	3069	3071
30°	3072	3040	3034
35°	3055	3015	3007
40°	3039	2990	2982
45°	3023	2967	2974
50°	3000	2939	2971
55°	2965	2905	2969
60°	2918	2853	2983
65°	2842	2793	2974
70°	2738	2690	2744
75°	2576	2468	2100
80°	2315	1954	2073
85°	1652	1680	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.2
10°-20°	315.5	9.3
20°-30°	476.9	14.0
30°-40°	575.5	17.0
40°-50°	603.9	17.8
50°-60°	558.8	16.5
60°-70°	441.1	13.0
70°-80°	247.0	7.3
80°-90°	65.4	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°	902.6	26.6
0°-40°	1478.1	43.5
0°-60°	2640.9	77.8
0°-90°	3394.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3394.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1160	1158	1160	1160	1161	110
15°	1120	1119	1117	1117	1120	316
25°	1040	1037	1034	1031	1034	480
35°	930	926	918	913	915	582
45°	794	789	780	775	781	612
55°	632	627	619	623	633	565
65°	446	443	439	452	467	442
75°	248	245	237	212	202	262
85°	54	54	54	54	54	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.5	1166.5	1166.5	1166.5	1166.5
2.5°	1164.8	1163.0	1163.9	1164.8	1166.5
5°	1159.6	1157.9	1159.6	1159.6	1161.3
7.5°	1152.7	1151.8	1153.5	1153.5	1155.3
10°	1144.9	1143.2	1144.0	1144.0	1146.6
12.5°	1133.7	1132.8	1132.8	1132.8	1135.4
15°	1119.9	1119.0	1117.3	1117.3	1119.9
17.5°	1103.5	1101.7	1100.9	1099.1	1100.9
20°	1084.5	1082.7	1081.0	1079.3	1081.9
22.5°	1063.7	1062.0	1058.6	1056.0	1059.4
25°	1040.4	1037.0	1033.5	1030.9	1034.4
27.5°	1015.4	1011.1	1006.8	1004.2	1006.8
30°	988.6	984.3	978.3	974.0	976.5
32.5°	960.1	955.8	948.9	944.6	946.3
35°	929.9	925.6	917.8	912.6	915.2
37.5°	898.0	893.7	885.0	879.8	882.4
40°	865.2	860.0	851.3	846.2	848.8
42.5°	829.8	825.4	815.9	809.9	815.9
45°	794.4	789.2	779.7	775.4	781.4
47.5°	756.4	750.3	740.8	739.1	746.0
50°	716.6	711.5	702.0	701.1	709.7
52.5°	675.2	669.2	660.5	662.3	671.7
55°	632.0	626.9	619.1	623.4	632.9
57.5°	587.1	582.8	575.0	583.7	594.9
60°	542.2	537.1	530.1	541.4	554.3
62.5°	495.6	489.6	483.5	498.2	512.9
65°	446.4	442.9	438.6	452.4	467.1
67.5°	397.2	394.6	391.1	404.1	412.7
70°	348.0	344.5	341.9	346.2	348.8
72.5°	300.5	294.4	292.7	281.5	276.3
75°	247.8	245.2	237.4	212.4	202.0
77.5°	197.7	194.3	177.0	158.9	159.7
80°	149.4	144.2	126.1	132.1	133.8
82.5°	101.9	97.6	93.3	93.3	91.5
85°	53.5	53.5	54.4	54.4	54.4
87.5°	21.6	23.3	23.3	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)