

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: P393376

Luminaire Tested: **22EN-LD2-39-UNV-L93050-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393376
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 (5700K)
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: 3468.0 lumens
Efficiency: N/A
Efficacy: 118.4 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

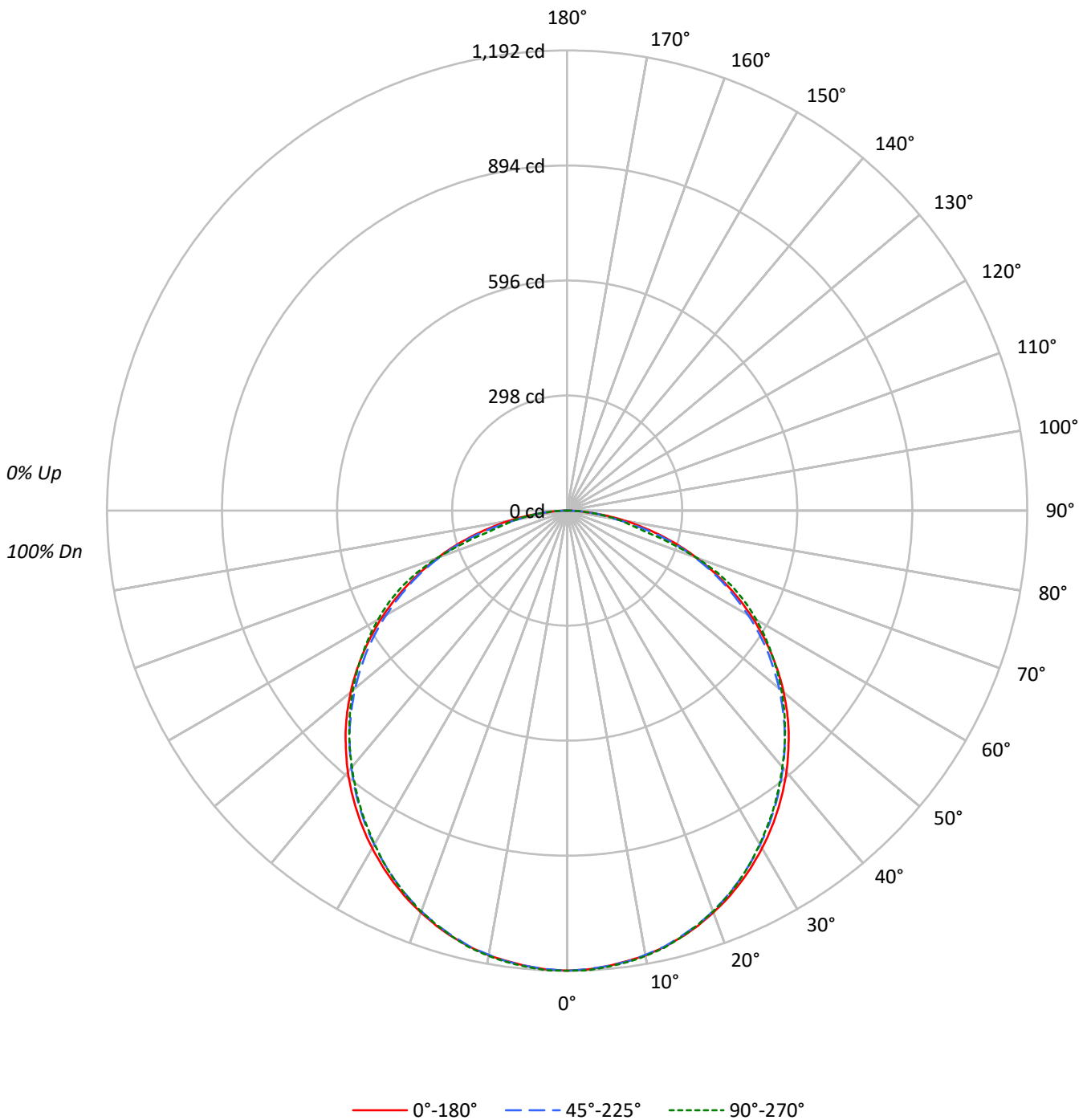
Input Watts (W): 29.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	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	40	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°	3207	3207	3207
5°	3200	3200	3205
10°	3196	3194	3201
15°	3187	3180	3187
20°	3173	3163	3165
25°	3156	3135	3138
30°	3139	3106	3100
35°	3121	3080	3072
40°	3105	3055	3046
45°	3089	3032	3038
50°	3065	3003	3036
55°	3029	2967	3034
60°	2982	2915	3048
65°	2904	2853	3039
70°	2797	2748	2804
75°	2633	2522	2146
80°	2365	1996	2118
85°	1689	1717	1717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	3.2
10°-20°	322.4	9.3
20°-30°	487.2	14.0
30°-40°	588.0	17.0
40°-50°	617.0	17.8
50°-60°	571.0	16.5
60°-70°	450.7	13.0
70°-80°	252.4	7.3
80°-90°	66.8	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°	922.2	26.6
0°-40°	1510.2	43.5
0°-60°	2698.1	77.8
0°-90°	3468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1185	1183	1185	1185	1186	113
15°	1144	1143	1142	1142	1144	323
25°	1063	1060	1056	1053	1057	490
35°	950	946	938	932	935	595
45°	812	806	797	792	798	626
55°	646	640	632	637	647	577
65°	456	452	448	462	477	451
75°	253	250	243	217	206	268
85°	55	55	56	56	56	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.8	1191.8	1191.8	1191.8	1191.8
2.5°	1190.0	1188.3	1189.1	1190.0	1191.8
5°	1184.7	1183.0	1184.7	1184.7	1186.5
7.5°	1177.7	1176.8	1178.6	1178.6	1180.3
10°	1169.7	1168.0	1168.8	1168.8	1171.5
12.5°	1158.3	1157.4	1157.4	1157.4	1160.0
15°	1144.1	1143.3	1141.5	1141.5	1144.1
17.5°	1127.4	1125.6	1124.7	1123.0	1124.7
20°	1108.0	1106.2	1104.5	1102.7	1105.3
22.5°	1086.8	1085.0	1081.5	1078.9	1082.4
25°	1063.0	1059.5	1055.9	1053.3	1056.8
27.5°	1037.4	1033.0	1028.6	1025.9	1028.6
30°	1010.1	1005.6	999.5	995.1	997.7
32.5°	980.9	976.5	969.5	965.1	966.8
35°	950.1	945.7	937.7	932.4	935.1
37.5°	917.4	913.0	904.2	898.9	901.6
40°	883.9	878.6	869.8	864.5	867.2
42.5°	847.7	843.3	833.6	827.5	833.6
45°	811.6	806.3	796.6	792.2	798.3
47.5°	772.8	766.6	756.9	755.1	762.2
50°	732.2	726.9	717.2	716.3	725.1
52.5°	689.8	683.7	674.8	676.6	686.3
55°	645.7	640.4	632.5	636.9	646.6
57.5°	599.9	595.5	587.5	596.3	607.8
60°	554.0	548.7	541.6	553.1	566.3
62.5°	506.4	500.2	494.0	509.0	524.0
65°	456.1	452.5	448.1	462.2	477.2
67.5°	405.8	403.1	399.6	412.8	421.7
70°	355.5	352.0	349.3	353.7	356.4
72.5°	307.0	300.8	299.0	287.6	282.3
75°	253.2	250.5	242.6	217.0	206.4
77.5°	202.0	198.5	180.8	162.3	163.2
80°	152.6	147.3	128.8	135.0	136.7
82.5°	104.1	99.7	95.3	95.3	93.5
85°	54.7	54.7	55.6	55.6	55.6
87.5°	22.1	23.8	23.8	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)