

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: P393346

Luminaire Tested: **22EN-LD2-39-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393346
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-L82765-W2A-1-U (2700K)
Description: 2X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3571.3 lumens
Efficiency: N/A
Efficacy: 119.4 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

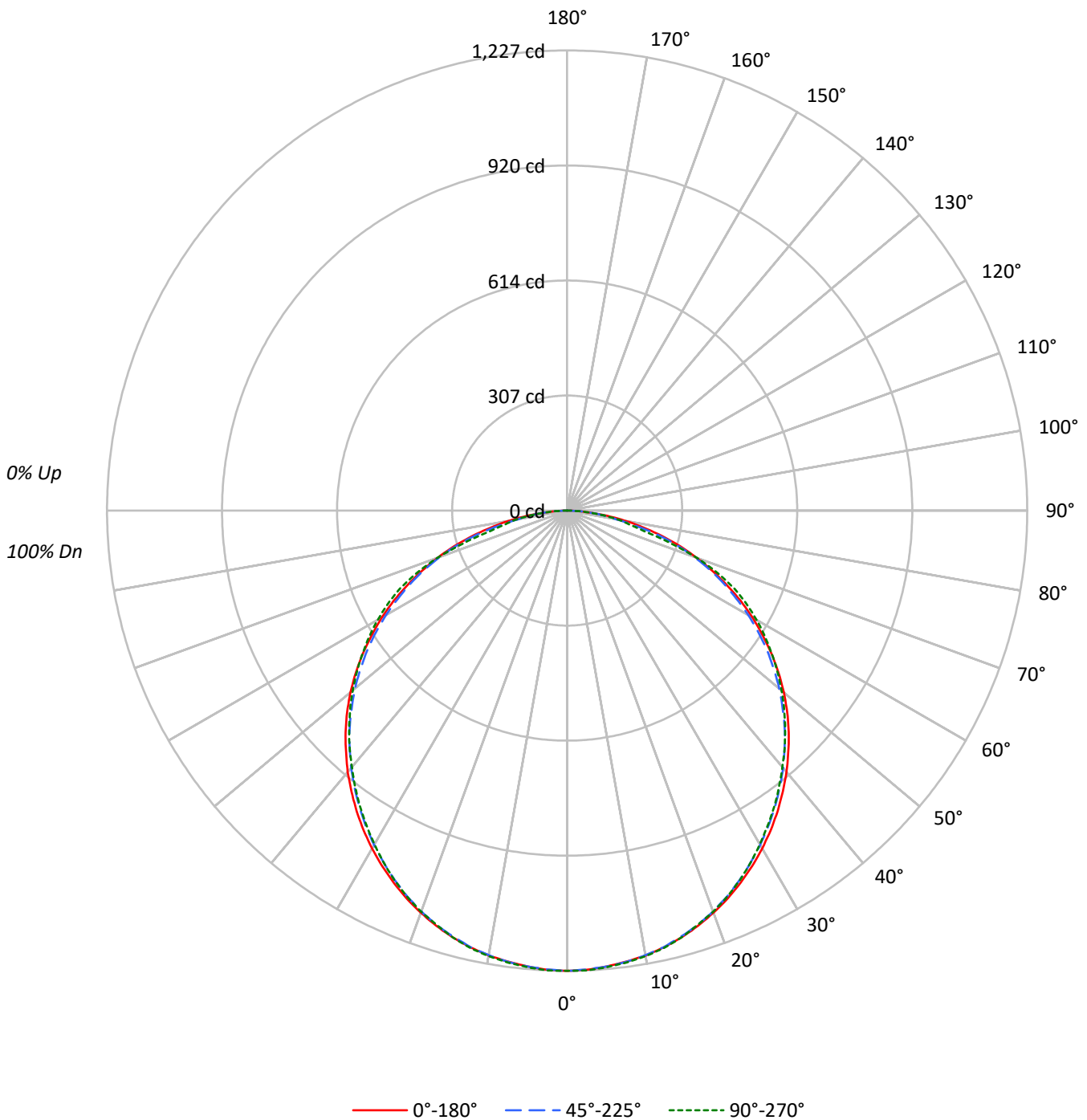
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3303	3303	3303
5°	3296	3296	3300
10°	3292	3289	3296
15°	3282	3275	3282
20°	3267	3257	3260
25°	3250	3229	3231
30°	3232	3198	3192
35°	3214	3172	3163
40°	3197	3146	3137
45°	3181	3122	3129
50°	3157	3092	3126
55°	3120	3056	3124
60°	3070	3002	3139
65°	2991	2939	3130
70°	2880	2830	2888
75°	2711	2597	2210
80°	2436	2055	2182
85°	1738	1766	1766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.2
10°-20°	332.0	9.3
20°-30°	501.8	14.0
30°-40°	605.5	17.0
40°-50°	635.4	17.8
50°-60°	588.0	16.5
60°-70°	464.1	13.0
70°-80°	259.9	7.3
80°-90°	68.8	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°	949.7	26.6
0°-40°	1555.2	43.5
0°-60°	2778.5	77.8
0°-90°	3571.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3571.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1220	1218	1220	1220	1222	116
15°	1178	1177	1176	1176	1178	332
25°	1095	1091	1087	1085	1088	505
35°	978	974	966	960	963	612
45°	836	830	820	816	822	644
55°	665	660	651	656	666	594
65°	470	466	462	476	492	465
75°	261	258	250	224	213	276
85°	56	56	57	57	57	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.3	1227.3	1227.3	1227.3	1227.3
2.5°	1225.5	1223.7	1224.6	1225.5	1227.3
5°	1220.0	1218.2	1220.0	1220.0	1221.8
7.5°	1212.8	1211.8	1213.7	1213.7	1215.5
10°	1204.6	1202.8	1203.7	1203.7	1206.4
12.5°	1192.8	1191.9	1191.9	1191.9	1194.6
15°	1178.2	1177.3	1175.5	1175.5	1178.2
17.5°	1161.0	1159.2	1158.2	1156.4	1158.2
20°	1141.0	1139.2	1137.4	1135.5	1138.3
22.5°	1119.2	1117.4	1113.7	1111.0	1114.6
25°	1094.7	1091.0	1087.4	1084.7	1088.3
27.5°	1068.3	1063.8	1059.2	1056.5	1059.2
30°	1040.2	1035.6	1029.3	1024.7	1027.4
32.5°	1010.2	1005.6	998.4	993.8	995.6
35°	978.4	973.8	965.7	960.2	962.9
37.5°	944.8	940.2	931.1	925.7	928.4
40°	910.2	904.8	895.7	890.3	893.0
42.5°	873.0	868.5	858.5	852.1	858.5
45°	835.8	830.3	820.3	815.8	822.1
47.5°	795.8	789.4	779.4	777.6	784.9
50°	754.0	748.5	738.6	737.6	746.7
52.5°	710.4	704.0	694.9	696.8	706.8
55°	665.0	659.5	651.3	655.9	665.9
57.5°	617.7	613.2	605.0	614.1	625.9
60°	570.5	565.0	557.8	569.6	583.2
62.5°	521.4	515.1	508.7	524.2	539.6
65°	469.7	466.0	461.5	476.0	491.5
67.5°	417.9	415.2	411.5	425.1	434.2
70°	366.1	362.5	359.7	364.3	367.0
72.5°	316.1	309.8	308.0	296.1	290.7
75°	260.7	258.0	249.8	223.5	212.6
77.5°	208.0	204.4	186.2	167.2	168.1
80°	157.2	151.7	132.6	139.0	140.8
82.5°	107.2	102.7	98.1	98.1	96.3
85°	56.3	56.3	57.2	57.2	57.2
87.5°	22.7	24.5	24.5	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)