

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: P393347

Luminaire Tested: **22EN-LD2-39-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393347
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 (3000K)
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: 3605.8 lumens
Efficiency: N/A
Efficacy: 120.6 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

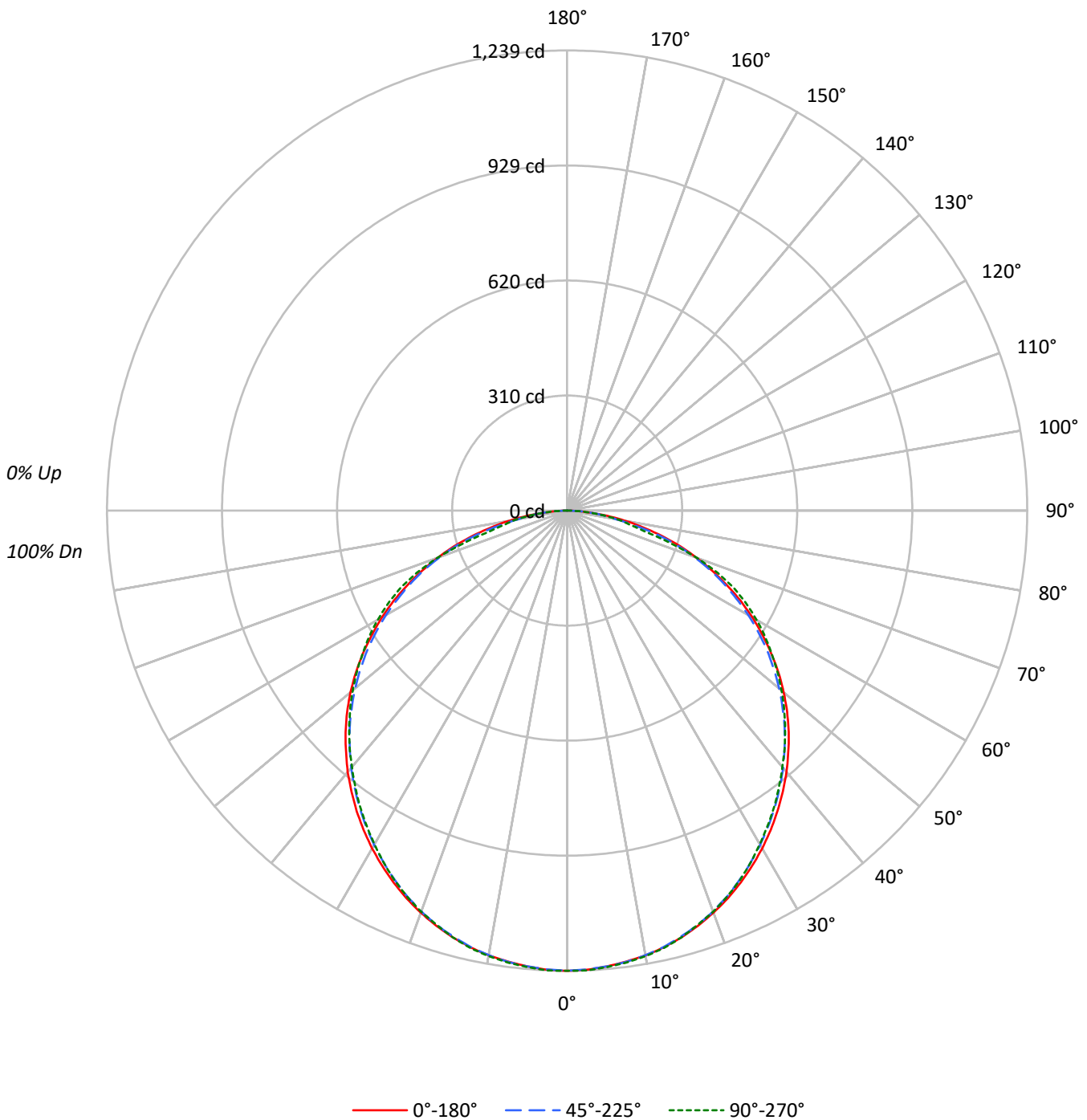
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393347

CATALOG NUMBER: 22EN-LD2-39-UNV-L82765-W2A-1-U (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393347

CATALOG NUMBER: 22EN-LD2-39-UNV-L82765-W2A-1-U (3000K)

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	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°	3335	3335	3335
5°	3327	3327	3333
10°	3323	3321	3328
15°	3314	3307	3314
20°	3299	3289	3291
25°	3282	3260	3263
30°	3263	3229	3223
35°	3245	3203	3194
40°	3229	3177	3167
45°	3211	3152	3159
50°	3187	3122	3157
55°	3150	3085	3154
60°	3100	3031	3169
65°	3019	2967	3160
70°	2908	2858	2916
75°	2737	2622	2231
80°	2459	2075	2204
85°	1757	1785	1785



TEST NUMBER: P393347

CATALOG NUMBER: 22EN-LD2-39-UNV-L82765-W2A-1-U (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.2
10°-20°	335.2	9.3
20°-30°	506.6	14.0
30°-40°	611.3	17.0
40°-50°	641.5	17.8
50°-60°	593.7	16.5
60°-70°	468.6	13.0
70°-80°	262.4	7.3
80°-90°	69.5	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°	958.9	26.6
0°-40°	1570.2	43.5
0°-60°	2805.4	77.8
0°-90°	3605.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3605.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1239	1239	1239	1239	1239	
5°	1232	1230	1232	1232	1234	117
15°	1190	1189	1187	1187	1190	336
25°	1105	1102	1098	1095	1099	509
35°	988	983	975	970	972	618
45°	844	838	828	824	830	651
55°	671	666	658	662	672	600
65°	474	470	466	481	496	469
75°	263	260	252	226	215	279
85°	57	57	58	58	58	73
90°	0	0	0	0	0	



TEST NUMBER: P393347

CATALOG NUMBER: 22EN-LD2-39-UNV-L82765-W2A-1-U (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1237.3	1235.5	1236.4	1237.3	1239.2
5°	1231.8	1230.0	1231.8	1231.8	1233.7
7.5°	1224.5	1223.6	1225.4	1225.4	1227.2
10°	1216.2	1214.4	1215.3	1215.3	1218.1
12.5°	1204.3	1203.4	1203.4	1203.4	1206.1
15°	1189.6	1188.7	1186.9	1186.9	1189.6
17.5°	1172.2	1170.4	1169.5	1167.6	1169.5
20°	1152.0	1150.2	1148.4	1146.5	1149.3
22.5°	1130.0	1128.2	1124.5	1121.8	1125.4
25°	1105.2	1101.6	1097.9	1095.2	1098.8
27.5°	1078.6	1074.1	1069.5	1066.7	1069.5
30°	1050.2	1045.6	1039.2	1034.6	1037.4
32.5°	1019.9	1015.4	1008.0	1003.4	1005.3
35°	987.8	983.3	975.0	969.5	972.3
37.5°	953.9	949.3	940.1	934.6	937.4
40°	919.1	913.5	904.4	898.9	901.6
42.5°	881.4	876.9	866.8	860.4	866.8
45°	843.8	838.3	828.2	823.7	830.1
47.5°	803.5	797.1	787.0	785.1	792.5
50°	761.3	755.8	745.7	744.8	754.0
52.5°	717.3	710.8	701.7	703.5	713.6
55°	671.4	665.9	657.6	662.2	672.3
57.5°	623.7	619.1	610.9	620.0	632.0
60°	576.0	570.5	563.2	575.1	588.9
62.5°	526.5	520.1	513.6	529.2	544.8
65°	474.2	470.5	465.9	480.6	496.2
67.5°	421.9	419.2	415.5	429.3	438.4
70°	369.6	366.0	363.2	367.8	370.6
72.5°	319.2	312.8	310.9	299.0	293.5
75°	263.2	260.5	252.2	225.6	214.6
77.5°	210.0	206.4	188.0	168.8	169.7
80°	158.7	153.2	133.9	140.3	142.2
82.5°	108.2	103.6	99.1	99.1	97.2
85°	56.9	56.9	57.8	57.8	57.8
87.5°	22.9	24.8	24.8	24.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)