

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: P393350

Luminaire Tested: **22EN-LD2-39-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393350
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 (4500K)
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: 3781.2 lumens
Efficiency: N/A
Efficacy: 127.3 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

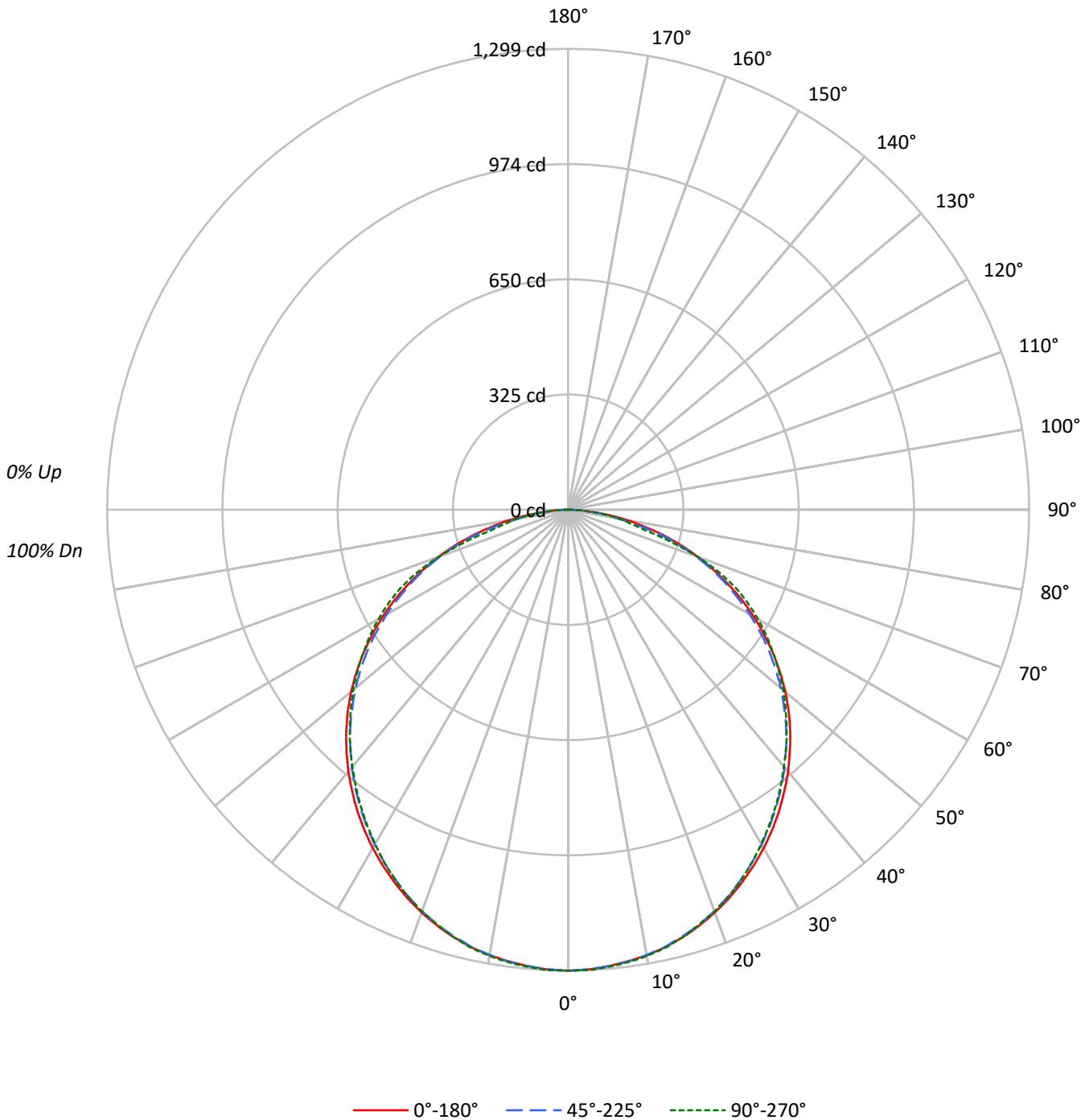
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393350

CATALOG NUMBER: 22EN-LD2-39-UNV-L82765-W2A-1-U (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P393350

CATALOG NUMBER: 22EN-LD2-39-UNV-L82765-W2A-1-U (4500K)

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°	3497	3497	3497
5°	3489	3489	3495
10°	3485	3482	3490
15°	3475	3467	3475
20°	3460	3448	3451
25°	3441	3418	3421
30°	3422	3386	3380
35°	3403	3359	3349
40°	3386	3332	3321
45°	3368	3305	3313
50°	3342	3274	3310
55°	3303	3235	3308
60°	3251	3179	3323
65°	3167	3111	3313
70°	3050	2997	3057
75°	2870	2750	2340
80°	2579	2176	2311
85°	1840	1871	1871



TEST NUMBER: P393350

CATALOG NUMBER: 22EN-LD2-39-UNV-L82765-W2A-1-U (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	3.2
10°-20°	351.5	9.3
20°-30°	531.2	14.0
30°-40°	641.1	17.0
40°-50°	672.7	17.8
50°-60°	622.5	16.5
60°-70°	491.4	13.0
70°-80°	275.2	7.3
80°-90°	72.8	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°	1005.5	26.6
0°-40°	1646.6	43.5
0°-60°	2941.8	77.8
0°-90°	3781.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3781.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1292	1290	1292	1292	1294	123
15°	1248	1246	1245	1245	1248	352
25°	1159	1155	1151	1148	1152	534
35°	1036	1031	1022	1017	1020	648
45°	885	879	868	864	870	682
55°	704	698	690	694	705	629
65°	497	493	489	504	520	492
75°	276	273	264	237	225	292
85°	60	60	61	61	61	76
90°	0	0	0	0	0	



TEST NUMBER: P393350

CATALOG NUMBER: 22EN-LD2-39-UNV-L82765-W2A-1-U (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.4	1299.4	1299.4	1299.4	1299.4
2.5°	1297.5	1295.6	1296.5	1297.5	1299.4
5°	1291.7	1289.8	1291.7	1291.7	1293.7
7.5°	1284.0	1283.1	1285.0	1285.0	1286.9
10°	1275.4	1273.5	1274.4	1274.4	1277.3
12.5°	1262.9	1261.9	1261.9	1261.9	1264.8
15°	1247.5	1246.5	1244.6	1244.6	1247.5
17.5°	1229.2	1227.3	1226.3	1224.4	1226.3
20°	1208.1	1206.1	1204.2	1202.3	1205.2
22.5°	1185.0	1183.1	1179.2	1176.3	1180.2
25°	1159.0	1155.2	1151.3	1148.4	1152.3
27.5°	1131.1	1126.3	1121.5	1118.6	1121.5
30°	1101.3	1096.5	1089.8	1084.9	1087.8
32.5°	1069.6	1064.7	1057.1	1052.2	1054.2
35°	1035.9	1031.1	1022.4	1016.7	1019.5
37.5°	1000.3	995.5	985.9	980.1	983.0
40°	963.8	958.0	948.4	942.6	945.5
42.5°	924.3	919.5	908.9	902.2	908.9
45°	884.9	879.1	868.5	863.7	870.5
47.5°	842.6	835.8	825.3	823.3	831.0
50°	798.3	792.5	782.0	781.0	790.6
52.5°	752.2	745.4	735.8	737.7	748.3
55°	704.1	698.3	689.6	694.4	705.0
57.5°	654.0	649.2	640.6	650.2	662.7
60°	604.0	598.3	590.6	603.1	617.5
62.5°	552.1	545.4	538.6	555.0	571.3
65°	497.3	493.4	488.6	504.0	520.3
67.5°	442.4	439.6	435.7	450.1	459.8
70°	387.6	383.8	380.9	385.7	388.6
72.5°	334.7	328.0	326.1	313.6	307.8
75°	276.0	273.2	264.5	236.6	225.1
77.5°	220.3	216.4	197.2	177.0	177.9
80°	166.4	160.6	140.4	147.2	149.1
82.5°	113.5	108.7	103.9	103.9	102.0
85°	59.6	59.6	60.6	60.6	60.6
87.5°	24.0	26.0	26.0	26.0	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)