

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: P393406

Luminaire Tested: **22EN-LD2-43-UNV-L93050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-43-UNV-L93050-W2A-1-U (4500K)
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3773.1 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

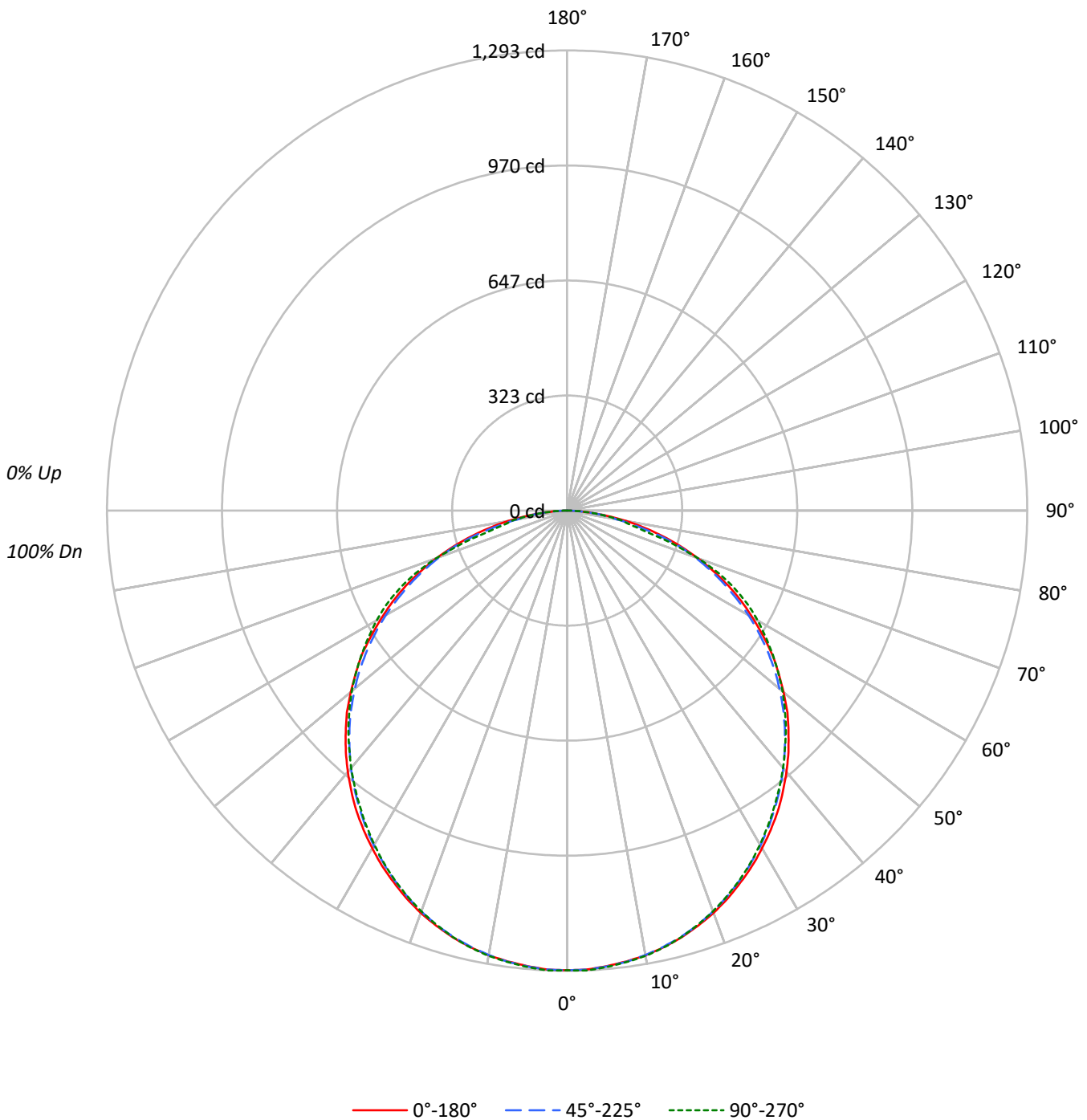
Input Watts (W): 32.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	90	88	90	87	85	83																												
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69																												
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																												
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																												
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																												
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37																												
7	64	51	42	35	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	39	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°	3476	3476	3476
5°	3470	3472	3477
10°	3467	3465	3472
15°	3459	3452	3456
20°	3445	3432	3432
25°	3423	3405	3402
30°	3405	3375	3367
35°	3389	3346	3335
40°	3368	3319	3316
45°	3348	3291	3308
50°	3323	3261	3309
55°	3300	3222	3308
60°	3237	3171	3327
65°	3181	3098	3316
70°	3068	2998	3074
75°	2895	2739	2383
80°	2599	2177	2340
85°	1924	1979	1899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	3.2
10°-20°	349.7	9.3
20°-30°	529.1	14.0
30°-40°	638.8	16.9
40°-50°	670.6	17.8
50°-60°	621.0	16.5
60°-70°	491.4	13.0
70°-80°	276.4	7.3
80°-90°	73.9	2.0
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°	1001.0	26.5
0°-40°	1639.8	43.5
0°-60°	2931.4	77.7
0°-90°	3773.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3773.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1285	1284	1286	1286	1287	122
15°	1242	1240	1239	1239	1241	350
25°	1153	1151	1147	1145	1146	532
35°	1032	1027	1019	1013	1015	645
45°	880	875	865	862	869	679
55°	703	696	687	693	705	626
65°	500	494	486	505	521	493
75°	278	274	263	241	229	294
85°	62	61	64	61	62	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291.7	1291.7	1291.7	1291.7	1291.7
2.5°	1290.8	1289.9	1290.8	1290.8	1293.4
5°	1284.6	1283.8	1285.5	1285.5	1287.3
7.5°	1277.6	1276.7	1278.5	1278.5	1279.4
10°	1268.8	1267.1	1268.0	1268.8	1270.6
12.5°	1256.5	1254.8	1254.8	1255.7	1257.4
15°	1241.6	1239.9	1239.0	1239.0	1240.7
17.5°	1223.2	1220.5	1220.5	1218.8	1220.5
20°	1203.0	1200.3	1198.6	1196.8	1198.6
22.5°	1179.3	1176.6	1174.0	1172.2	1173.1
25°	1152.9	1151.2	1146.8	1145.0	1145.9
27.5°	1125.7	1123.1	1117.8	1114.3	1116.0
30°	1095.8	1092.3	1086.2	1081.8	1083.6
32.5°	1064.2	1060.7	1053.7	1048.4	1050.2
35°	1031.7	1027.4	1018.6	1013.3	1015.1
37.5°	995.7	992.2	982.6	977.3	979.9
40°	958.9	955.4	944.8	940.4	943.9
42.5°	920.2	916.7	905.3	900.9	906.2
45°	879.8	875.4	864.9	862.3	869.3
47.5°	839.4	833.3	822.8	821.0	829.8
50°	793.8	789.4	778.9	779.7	790.3
52.5°	748.1	744.6	734.1	737.6	747.2
55°	703.3	696.3	686.7	692.8	705.1
57.5°	651.5	647.1	638.4	648.0	661.2
60°	601.5	598.0	589.2	601.5	618.2
62.5°	552.3	545.3	537.4	554.9	572.5
65°	499.6	493.5	486.5	504.9	520.7
67.5°	445.2	439.0	433.8	450.5	461.9
70°	389.9	384.6	381.1	386.4	390.7
72.5°	334.5	329.3	326.6	314.4	310.8
75°	278.4	274.0	263.4	240.6	229.2
77.5°	222.2	216.9	199.3	177.4	178.3
80°	167.7	161.6	140.5	146.6	151.0
82.5°	114.2	109.8	105.4	103.6	104.5
85°	62.3	60.6	64.1	60.6	61.5
87.5°	25.5	26.3	28.1	27.2	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)