

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: P393402

Luminaire Tested: **22EN-LD2-43-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393402
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 (2700K)
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: 3710.1 lumens
Efficiency: N/A
Efficacy: 113.5 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

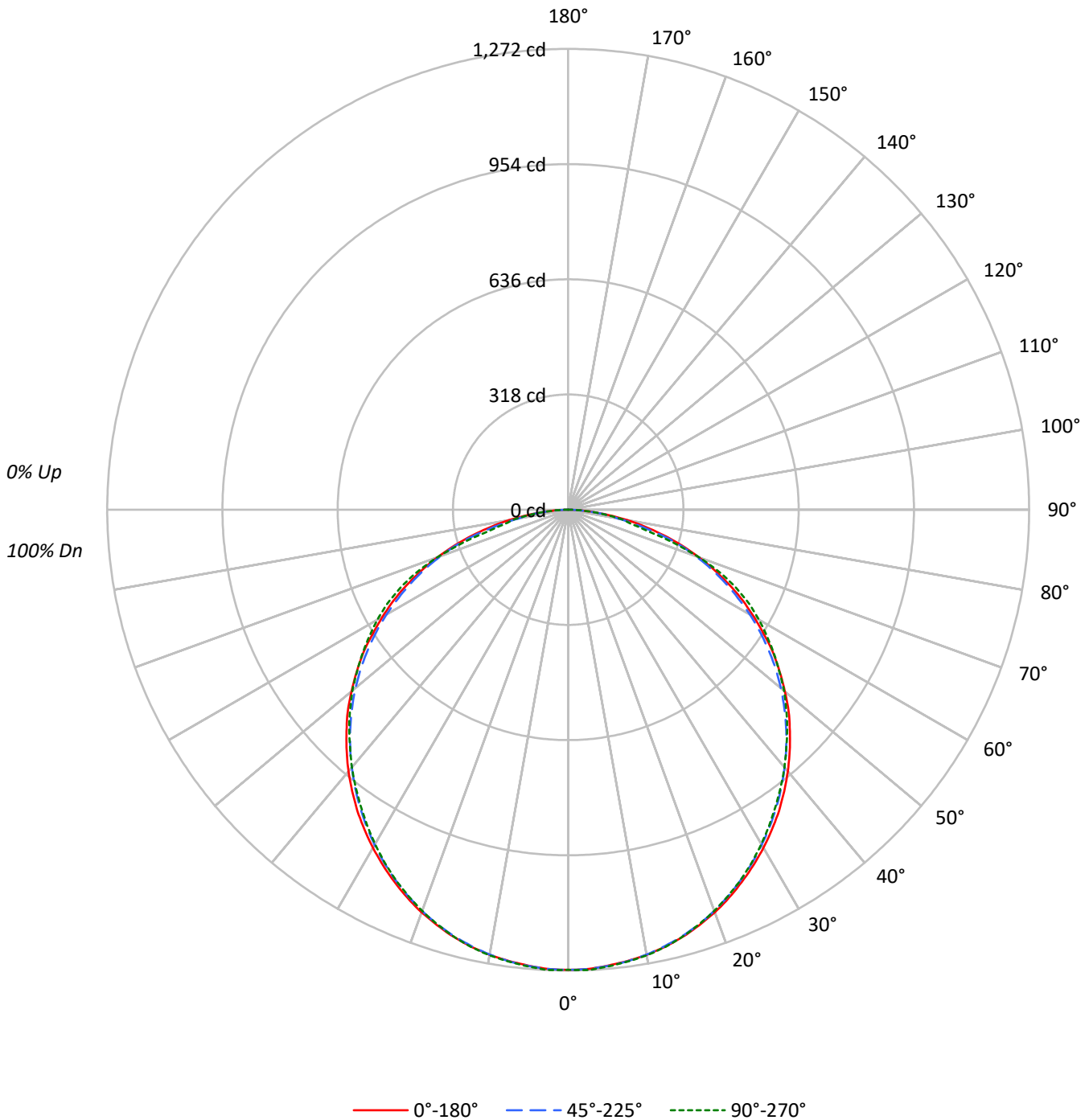
Input Watts (W): 32.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3418	3418	3418
5°	3412	3415	3419
10°	3409	3407	3414
15°	3401	3394	3399
20°	3387	3375	3375
25°	3366	3348	3346
30°	3348	3319	3311
35°	3333	3290	3279
40°	3312	3264	3261
45°	3293	3237	3253
50°	3268	3206	3253
55°	3245	3168	3253
60°	3183	3118	3272
65°	3128	3046	3260
70°	3017	2948	3023
75°	2846	2693	2344
80°	2555	2140	2301
85°	1893	1945	1865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	3.2
10°-20°	343.9	9.3
20°-30°	520.2	14.0
30°-40°	628.1	16.9
40°-50°	659.5	17.8
50°-60°	610.6	16.5
60°-70°	483.2	13.0
70°-80°	271.7	7.3
80°-90°	72.7	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°	984.3	26.5
0°-40°	1612.4	43.5
0°-60°	2882.5	77.7
0°-90°	3710.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3710.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1263	1262	1264	1264	1266	120
15°	1221	1219	1218	1218	1220	345
25°	1134	1132	1128	1126	1127	523
35°	1014	1010	1002	996	998	634
45°	865	861	850	848	855	668
55°	692	685	675	681	693	616
65°	491	485	478	496	512	485
75°	274	269	259	237	225	289
85°	61	60	63	60	60	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.1	1270.1	1270.1	1270.1	1270.1
2.5°	1269.2	1268.4	1269.2	1269.2	1271.8
5°	1263.2	1262.3	1264.1	1264.1	1265.8
7.5°	1256.3	1255.4	1257.2	1257.2	1258.0
10°	1247.7	1245.9	1246.8	1247.7	1249.4
12.5°	1235.6	1233.8	1233.8	1234.7	1236.4
15°	1220.9	1219.2	1218.3	1218.3	1220.0
17.5°	1202.8	1200.2	1200.2	1198.4	1200.2
20°	1182.9	1180.3	1178.6	1176.9	1178.6
22.5°	1159.6	1157.0	1154.4	1152.7	1153.5
25°	1133.7	1132.0	1127.6	1125.9	1126.8
27.5°	1106.9	1104.3	1099.1	1095.7	1097.4
30°	1077.6	1074.1	1068.1	1063.7	1065.5
32.5°	1046.5	1043.0	1036.1	1030.9	1032.7
35°	1014.5	1010.2	1001.6	996.4	998.1
37.5°	979.1	975.7	966.2	961.0	963.6
40°	942.9	939.4	929.1	924.7	928.2
42.5°	904.9	901.4	890.2	885.9	891.1
45°	865.2	860.8	850.5	847.9	854.8
47.5°	825.4	819.4	809.0	807.3	815.9
50°	780.5	776.2	765.9	766.7	777.1
52.5°	735.6	732.2	721.8	725.3	734.8
55°	691.6	684.7	675.2	681.2	693.3
57.5°	640.7	636.3	627.7	637.2	650.2
60°	591.5	588.0	579.4	591.5	607.9
62.5°	543.1	536.2	528.4	545.7	563.0
65°	491.3	485.2	478.3	496.5	512.0
67.5°	437.8	431.7	426.5	442.9	454.2
70°	383.4	378.2	374.7	379.9	384.2
72.5°	329.0	323.8	321.2	309.1	305.7
75°	273.7	269.4	259.0	236.6	225.4
77.5°	218.4	213.3	196.0	174.4	175.3
80°	164.9	158.9	138.1	144.2	148.5
82.5°	112.2	107.9	103.6	101.9	102.7
85°	61.3	59.6	63.0	59.6	60.4
87.5°	25.0	25.9	27.6	26.8	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)