

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: P393357

Luminaire Tested: **22EN-LD2-39-UNV-L83050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393357
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-L83050-W2A-1-U (4000K)
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: 3948.0 lumens
Efficiency: N/A
Efficacy: 131.6 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

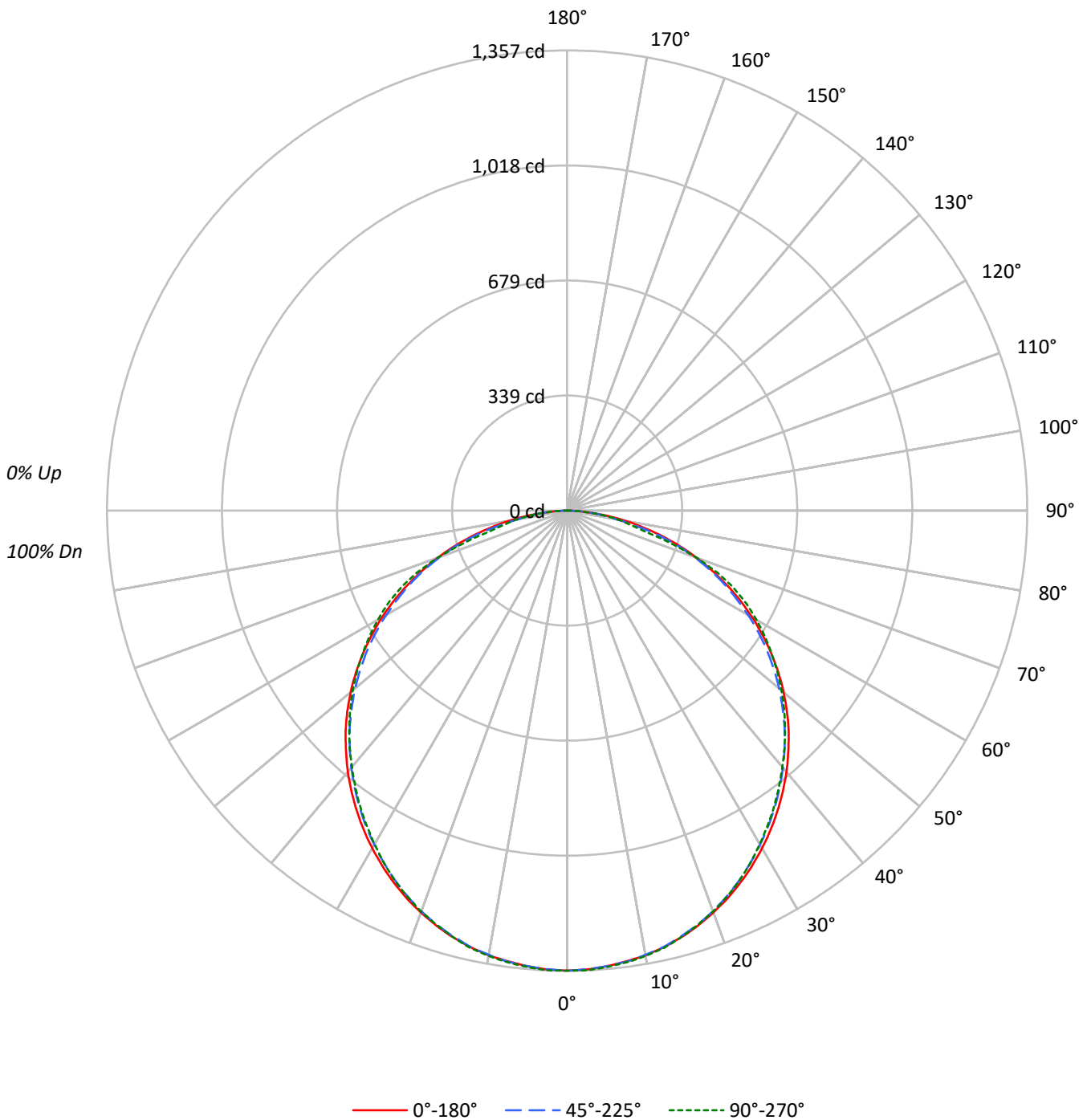
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3651	3651	3651
5°	3643	3643	3649
10°	3639	3636	3644
15°	3629	3620	3629
20°	3612	3601	3603
25°	3593	3569	3572
30°	3573	3535	3529
35°	3553	3507	3497
40°	3535	3478	3468
45°	3516	3451	3459
50°	3489	3418	3456
55°	3449	3378	3453
60°	3394	3319	3470
65°	3306	3249	3459
70°	3184	3129	3192
75°	2996	2872	2443
80°	2692	2272	2413
85°	1924	1954	1954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.2
10°-20°	367.0	9.3
20°-30°	554.7	14.0
30°-40°	669.3	17.0
40°-50°	702.4	17.8
50°-60°	650.0	16.5
60°-70°	513.1	13.0
70°-80°	287.3	7.3
80°-90°	76.1	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°	1049.9	26.6
0°-40°	1719.2	43.5
0°-60°	3071.6	77.8
0°-90°	3948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1349	1347	1349	1349	1351	128
15°	1302	1302	1300	1300	1302	368
25°	1210	1206	1202	1199	1203	558
35°	1082	1077	1068	1062	1064	677
45°	924	918	907	902	909	712
55°	735	729	720	725	736	657
65°	519	515	510	526	543	514
75°	288	285	276	247	235	305
85°	62	62	63	63	63	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.7	1356.7	1356.7	1356.7	1356.7
2.5°	1354.7	1352.7	1353.7	1354.7	1356.7
5°	1348.7	1346.7	1348.7	1348.7	1350.7
7.5°	1340.7	1339.7	1341.7	1341.7	1343.7
10°	1331.6	1329.6	1330.6	1330.6	1333.6
12.5°	1318.6	1317.6	1317.6	1317.6	1320.6
15°	1302.5	1301.5	1299.5	1299.5	1302.5
17.5°	1283.4	1281.4	1280.4	1278.4	1280.4
20°	1261.3	1259.3	1257.3	1255.3	1258.3
22.5°	1237.2	1235.2	1231.2	1228.2	1232.2
25°	1210.1	1206.1	1202.1	1199.1	1203.1
27.5°	1181.0	1176.0	1171.0	1167.9	1171.0
30°	1149.9	1144.8	1137.8	1132.8	1135.8
32.5°	1116.7	1111.7	1103.7	1098.7	1100.7
35°	1081.6	1076.6	1067.5	1061.5	1064.5
37.5°	1044.4	1039.4	1029.4	1023.3	1026.3
40°	1006.3	1000.2	990.2	984.2	987.2
42.5°	965.1	960.1	949.0	942.0	949.0
45°	923.9	917.9	906.8	901.8	908.8
47.5°	879.7	872.7	861.6	859.6	867.7
50°	833.5	827.5	816.5	815.5	825.5
52.5°	785.3	778.3	768.3	770.3	781.3
55°	735.1	729.1	720.0	725.1	736.1
57.5°	682.9	677.9	668.8	678.9	691.9
60°	630.7	624.6	616.6	629.7	644.7
62.5°	576.4	569.4	562.4	579.5	596.5
65°	519.2	515.2	510.2	526.2	543.3
67.5°	462.0	458.9	454.9	470.0	480.0
70°	404.7	400.7	397.7	402.7	405.7
72.5°	349.5	342.4	340.4	327.4	321.4
75°	288.2	285.2	276.2	247.0	235.0
77.5°	230.0	226.0	205.9	184.8	185.8
80°	173.7	167.7	146.6	153.7	155.7
82.5°	118.5	113.5	108.5	108.5	106.5
85°	62.3	62.3	63.3	63.3	63.3
87.5°	25.1	27.1	27.1	27.1	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)