

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: P393355

Luminaire Tested: **22EN-LD2-39-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393355
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 (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: 3868.2 lumens
Efficiency: N/A
Efficacy: 127.7 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

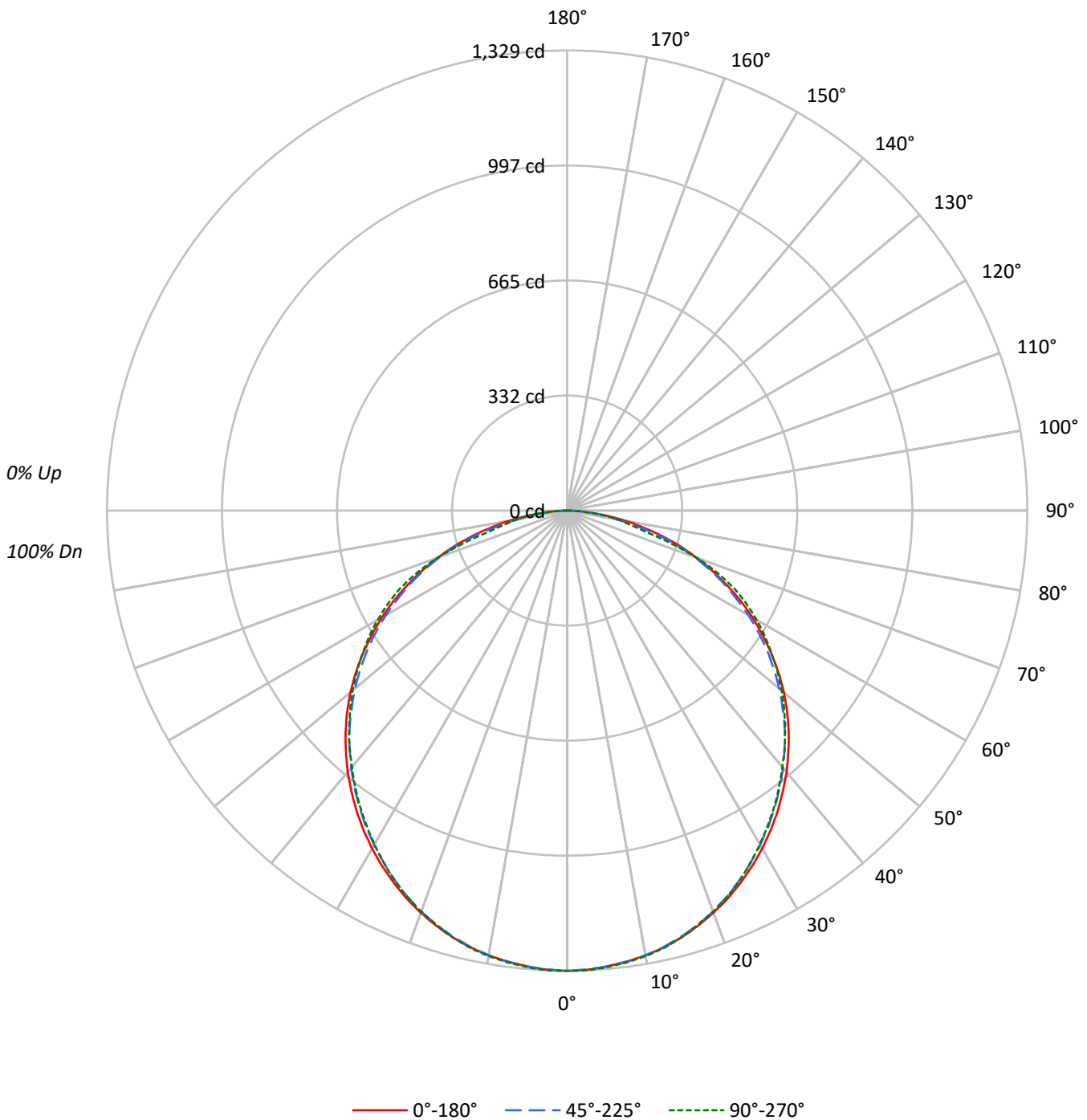
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3577	3577	3577
5°	3569	3569	3575
10°	3565	3562	3571
15°	3555	3547	3555
20°	3539	3528	3531
25°	3521	3497	3500
30°	3501	3464	3458
35°	3481	3436	3426
40°	3463	3408	3398
45°	3445	3381	3389
50°	3419	3349	3386
55°	3379	3310	3384
60°	3326	3251	3400
65°	3239	3182	3389
70°	3120	3065	3127
75°	2936	2813	2393
80°	2638	2227	2363
85°	1883	1914	1914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.2
10°-20°	359.6	9.3
20°-30°	543.5	14.0
30°-40°	655.8	17.0
40°-50°	688.2	17.8
50°-60°	636.8	16.5
60°-70°	502.7	13.0
70°-80°	281.5	7.3
80°-90°	74.5	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°	1028.6	26.6
0°-40°	1684.4	43.5
0°-60°	3009.5	77.8
0°-90°	3868.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3868.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1321	1320	1321	1321	1323	126
15°	1276	1275	1273	1273	1276	360
25°	1186	1182	1178	1175	1179	547
35°	1060	1055	1046	1040	1043	663
45°	905	899	888	884	890	698
55°	720	714	706	710	721	643
65°	509	505	500	516	532	503
75°	282	279	271	242	230	299
85°	61	61	62	62	62	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.3	1329.3	1329.3	1329.3	1329.3
2.5°	1327.3	1325.4	1326.4	1327.3	1329.3
5°	1321.4	1319.5	1321.4	1321.4	1323.4
7.5°	1313.6	1312.6	1314.6	1314.6	1316.5
10°	1304.7	1302.7	1303.7	1303.7	1306.7
12.5°	1291.9	1290.9	1290.9	1290.9	1293.9
15°	1276.2	1275.2	1273.2	1273.2	1276.2
17.5°	1257.5	1255.5	1254.5	1252.6	1254.5
20°	1235.8	1233.9	1231.9	1229.9	1232.9
22.5°	1212.2	1210.3	1206.3	1203.4	1207.3
25°	1185.7	1181.7	1177.8	1174.8	1178.8
27.5°	1157.1	1152.2	1147.3	1144.3	1147.3
30°	1126.6	1121.7	1114.8	1109.9	1112.8
32.5°	1094.1	1089.2	1081.4	1076.4	1078.4
35°	1059.7	1054.8	1045.9	1040.0	1043.0
37.5°	1023.3	1018.4	1008.5	1002.6	1005.6
40°	985.9	980.0	970.2	964.3	967.2
42.5°	945.6	940.7	929.8	922.9	929.8
45°	905.2	899.3	888.5	883.6	890.5
47.5°	861.9	855.0	844.2	842.3	850.1
50°	816.7	810.8	799.9	799.0	808.8
52.5°	769.4	762.6	752.7	754.7	765.5
55°	720.2	714.3	705.5	710.4	721.2
57.5°	669.1	664.2	655.3	665.1	677.9
60°	617.9	612.0	604.1	616.9	631.7
62.5°	564.8	557.9	551.0	567.7	584.5
65°	508.7	504.8	499.8	515.6	532.3
67.5°	452.6	449.7	445.7	460.5	470.3
70°	396.5	392.6	389.6	394.6	397.5
72.5°	342.4	335.5	333.6	320.8	314.9
75°	282.4	279.4	270.6	242.1	230.2
77.5°	225.3	221.4	201.7	181.0	182.0
80°	170.2	164.3	143.7	150.5	152.5
82.5°	116.1	111.2	106.3	106.3	104.3
85°	61.0	61.0	62.0	62.0	62.0
87.5°	24.6	26.6	26.6	26.6	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)