

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: P393352

Luminaire Tested: **22EN-LD2-39-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393352
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 (5700K)
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: 3789.0 lumens
Efficiency: N/A
Efficacy: 128.4 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

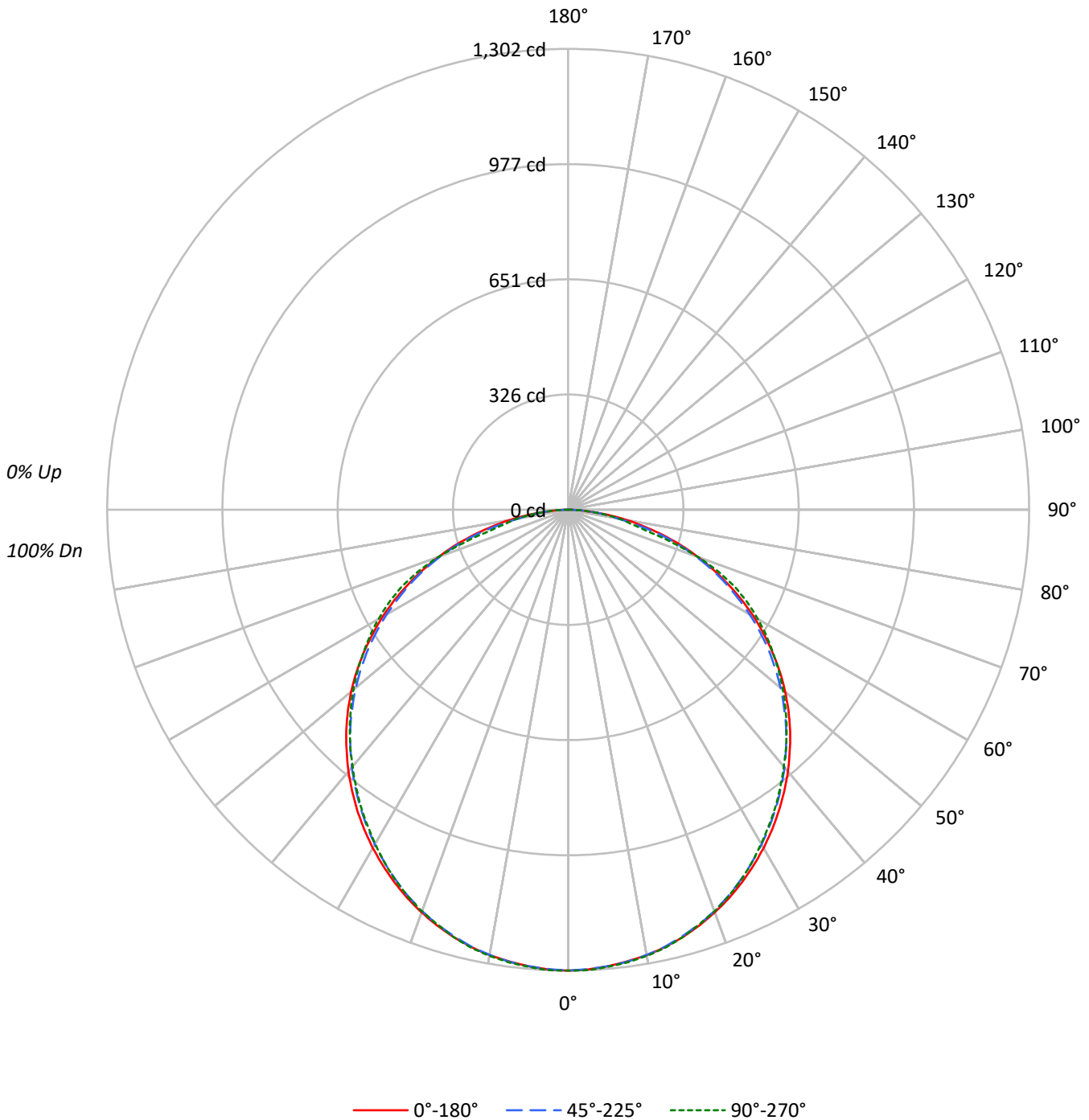
Input Watts (W): 29.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3504	3504	3504
5°	3497	3497	3502
10°	3492	3490	3497
15°	3483	3475	3483
20°	3467	3456	3458
25°	3448	3426	3428
30°	3429	3393	3387
35°	3410	3366	3356
40°	3392	3338	3328
45°	3374	3312	3320
50°	3349	3280	3317
55°	3310	3242	3315
60°	3258	3185	3330
65°	3173	3117	3320
70°	3056	3003	3064
75°	2876	2755	2345
80°	2583	2180	2315
85°	1846	1874	1874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	3.2
10°-20°	352.2	9.3
20°-30°	532.3	14.0
30°-40°	642.4	17.0
40°-50°	674.1	17.8
50°-60°	623.8	16.5
60°-70°	492.4	13.0
70°-80°	275.7	7.3
80°-90°	73.0	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°	1007.6	26.6
0°-40°	1650.0	43.5
0°-60°	2947.9	77.8
0°-90°	3789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1294	1292	1294	1294	1296	123
15°	1250	1249	1247	1247	1250	353
25°	1161	1158	1154	1151	1155	535
35°	1038	1033	1024	1019	1022	650
45°	887	881	870	866	872	684
55°	706	700	691	696	706	630
65°	498	494	490	505	521	493
75°	277	274	265	237	226	293
85°	60	60	61	61	61	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1302.1	1302.1	1302.1	1302.1	1302.1
2.5°	1300.2	1298.3	1299.2	1300.2	1302.1
5°	1294.4	1292.5	1294.4	1294.4	1296.3
7.5°	1286.7	1285.7	1287.7	1287.7	1289.6
10°	1278.0	1276.1	1277.1	1277.1	1279.9
12.5°	1265.5	1264.5	1264.5	1264.5	1267.4
15°	1250.1	1249.1	1247.2	1247.2	1250.1
17.5°	1231.8	1229.8	1228.9	1226.9	1228.9
20°	1210.6	1208.6	1206.7	1204.8	1207.7
22.5°	1187.4	1185.5	1181.6	1178.7	1182.6
25°	1161.4	1157.5	1153.7	1150.8	1154.7
27.5°	1133.4	1128.6	1123.8	1120.9	1123.8
30°	1103.6	1098.8	1092.0	1087.2	1090.1
32.5°	1071.8	1066.9	1059.2	1054.4	1056.3
35°	1038.0	1033.2	1024.5	1018.8	1021.6
37.5°	1002.4	997.6	987.9	982.1	985.0
40°	965.7	960.0	950.3	944.5	947.4
42.5°	926.2	921.4	910.8	904.1	910.8
45°	886.7	880.9	870.3	865.5	872.3
47.5°	844.3	837.6	827.0	825.0	832.7
50°	800.0	794.2	783.6	782.6	792.3
52.5°	753.7	747.0	737.3	739.2	749.8
55°	705.5	699.7	691.1	695.9	706.5
57.5°	655.4	650.6	641.9	651.5	664.1
60°	605.3	599.5	591.8	604.3	618.8
62.5°	553.2	546.5	539.7	556.1	572.5
65°	498.3	494.4	489.6	505.0	521.4
67.5°	443.4	440.5	436.6	451.1	460.7
70°	388.4	384.6	381.7	386.5	389.4
72.5°	335.4	328.7	326.7	314.2	308.4
75°	276.6	273.7	265.0	237.1	225.5
77.5°	220.7	216.9	197.6	177.3	178.3
80°	166.7	161.0	140.7	147.5	149.4
82.5°	113.7	108.9	104.1	104.1	102.2
85°	59.8	59.8	60.7	60.7	60.7
87.5°	24.1	26.0	26.0	26.0	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)