

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: P392930

Luminaire Tested: **12EN-LD2-39-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-40)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-39-UNV-L82765-W2A-1-U (2700K)
Description: 1X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3588.1 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

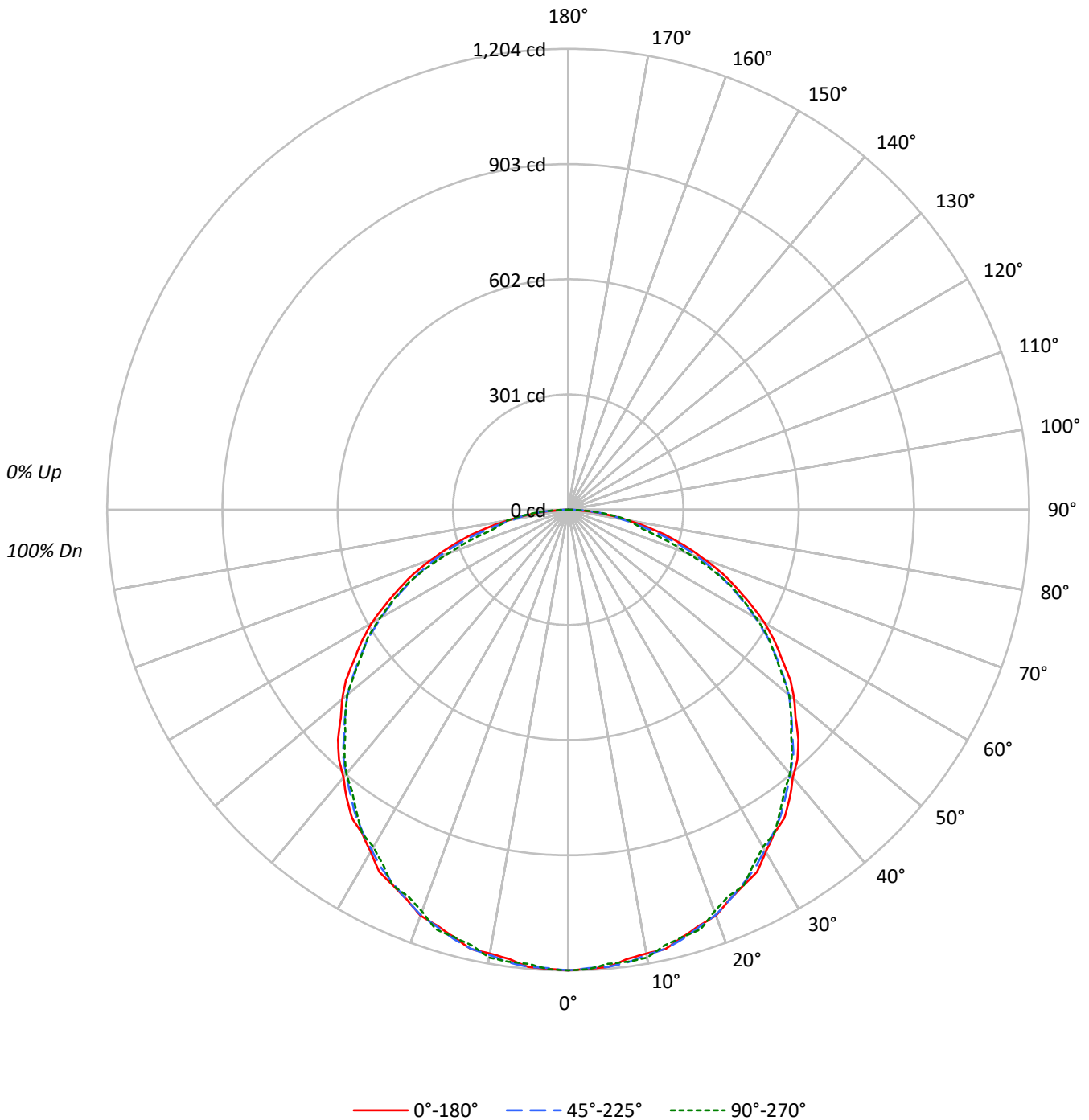
Input Watts (W): 35.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6478	6478	6478
5°	6478	6478	6434
10°	6434	6454	6493
15°	6438	6464	6438
20°	6462	6452	6395
25°	6430	6409	6436
30°	6413	6379	6323
35°	6464	6374	6332
40°	6414	6338	6332
45°	6472	6299	6264
50°	6450	6298	6306
55°	6393	6197	6163
60°	6385	6072	6112
65°	6189	5889	5957
70°	5961	5690	5232
75°	5629	5101	4288
80°	4872	4392	4984
85°	3872	4545	4823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.2
10°-20°	327.1	9.1
20°-30°	497.7	13.9
30°-40°	606.7	16.9
40°-50°	642.9	17.9
50°-60°	596.0	16.6
60°-70°	463.6	12.9
70°-80°	260.4	7.3
80°-90°	80.0	2.2
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°	938.6	26.2
0°-40°	1545.3	43.1
0°-60°	2784.2	77.6
0°-90°	3588.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3588.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1199	1195	1199	1196	1191	113
15°	1156	1156	1160	1160	1156	327
25°	1083	1083	1079	1076	1084	500
35°	984	978	970	964	964	612
45°	850	841	828	825	823	653
55°	681	678	660	657	657	611
65°	486	482	462	462	468	482
75°	271	262	245	220	206	284
85°	63	64	74	75	78	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1203.7	1203.7	1203.7	1203.7	1203.7
2.5°	1200.9	1203.7	1199.1	1200.9	1201.9
5°	1199.1	1194.6	1199.1	1196.4	1191.0
7.5°	1183.7	1188.2	1192.8	1193.7	1191.0
10°	1177.3	1186.4	1181.0	1183.7	1188.2
12.5°	1175.5	1171.9	1174.6	1170.1	1165.5
15°	1155.5	1156.4	1160.1	1160.1	1155.5
17.5°	1139.2	1146.4	1141.9	1141.0	1149.2
20°	1128.3	1126.5	1126.5	1122.8	1116.5
22.5°	1101.9	1102.8	1102.8	1101.0	1092.8
25°	1082.8	1082.8	1079.2	1075.6	1083.8
27.5°	1067.4	1059.2	1055.6	1051.1	1046.5
30°	1032.0	1030.2	1026.5	1023.8	1017.4
32.5°	1002.0	1002.9	999.3	993.8	1002.0
35°	983.8	977.5	970.2	963.8	963.8
37.5°	950.2	943.9	934.8	929.3	926.6
40°	913.0	910.2	902.1	896.6	901.2
42.5°	885.7	880.3	870.3	862.1	864.8
45°	850.3	841.2	827.6	824.9	823.0
47.5°	805.8	803.1	789.4	785.8	789.4
50°	770.3	765.8	752.2	744.9	753.1
52.5°	731.3	721.3	705.9	704.0	703.1
55°	681.3	677.7	660.4	656.8	656.8
57.5°	638.6	633.2	615.9	609.6	619.5
60°	593.2	583.2	564.1	562.3	567.8
62.5°	538.7	532.3	513.3	513.3	516.9
65°	486.0	481.5	462.4	461.5	467.8
67.5°	436.0	427.0	412.4	406.1	402.4
70°	378.8	372.5	361.6	340.7	332.5
72.5°	324.3	318.0	306.1	273.4	270.7
75°	270.7	261.6	245.3	219.8	206.2
77.5°	212.6	209.8	187.1	175.3	180.8
80°	157.2	158.1	141.7	153.5	160.8
82.5°	107.2	103.6	115.4	119.9	122.6
85°	62.7	64.5	73.6	75.4	78.1
87.5°	25.4	30.0	34.5	35.4	39.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)