

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: P392935

Luminaire Tested: **12EN-LD2-39-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392935
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 (5000K)
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: 3792.9 lumens
Efficiency: N/A
Efficacy: 107.8 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

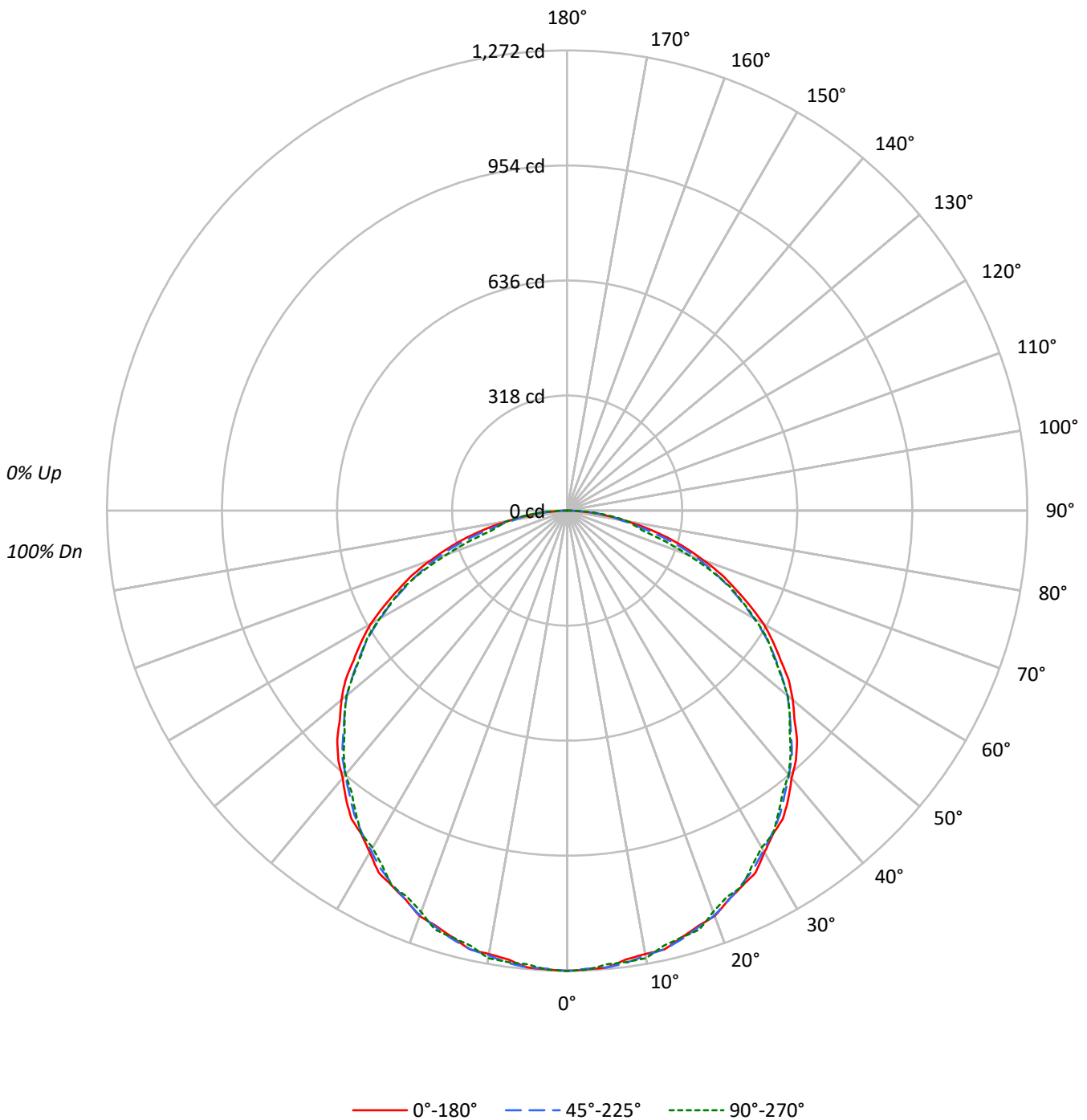
Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6848	6848	6848
5°	6848	6848	6801
10°	6801	6822	6864
15°	6806	6833	6806
20°	6831	6820	6759
25°	6797	6774	6803
30°	6779	6743	6684
35°	6833	6738	6694
40°	6780	6700	6693
45°	6841	6658	6622
50°	6818	6657	6666
55°	6758	6550	6515
60°	6750	6419	6461
65°	6542	6225	6297
70°	6301	6014	5531
75°	5951	5392	4533
80°	5148	4643	5269
85°	4094	4804	5101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	3.2
10°-20°	345.7	9.1
20°-30°	526.1	13.9
30°-40°	641.3	16.9
40°-50°	679.5	17.9
50°-60°	630.0	16.6
60°-70°	490.0	12.9
70°-80°	275.3	7.3
80°-90°	84.6	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°	992.2	26.2
0°-40°	1633.5	43.1
0°-60°	2943.0	77.6
0°-90°	3792.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3792.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1268	1263	1268	1265	1259	120
15°	1222	1222	1226	1226	1222	345
25°	1145	1145	1141	1137	1146	529
35°	1040	1033	1026	1019	1019	647
45°	899	889	875	872	870	691
55°	720	716	698	694	694	646
65°	514	509	489	488	494	509
75°	286	277	259	232	218	300
85°	66	68	78	80	83	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.4	1272.4	1272.4	1272.4	1272.4
2.5°	1269.5	1272.4	1267.6	1269.5	1270.4
5°	1267.6	1262.8	1267.6	1264.7	1258.9
7.5°	1251.2	1256.0	1260.8	1261.8	1258.9
10°	1244.5	1254.1	1248.4	1251.2	1256.0
12.5°	1242.6	1238.8	1241.6	1236.8	1232.0
15°	1221.5	1222.4	1226.3	1226.3	1221.5
17.5°	1204.2	1211.9	1207.1	1206.1	1214.7
20°	1192.7	1190.7	1190.7	1186.9	1180.2
22.5°	1164.8	1165.8	1165.8	1163.9	1155.2
25°	1144.6	1144.6	1140.8	1137.0	1145.6
27.5°	1128.3	1119.7	1115.8	1111.0	1106.2
30°	1090.9	1088.9	1085.1	1082.2	1075.5
32.5°	1059.2	1060.1	1056.3	1050.5	1059.2
35°	1040.0	1033.3	1025.6	1018.8	1018.8
37.5°	1004.4	997.7	988.1	982.4	979.5
40°	965.1	962.2	953.6	947.8	952.6
42.5°	936.3	930.5	919.9	911.3	914.2
45°	898.8	889.2	874.8	871.9	870.0
47.5°	851.8	848.9	834.5	830.6	834.5
50°	814.3	809.5	795.1	787.4	796.1
52.5°	773.0	762.5	746.1	744.2	743.3
55°	720.2	716.4	698.1	694.3	694.3
57.5°	675.1	669.3	651.1	644.3	654.9
60°	627.1	616.5	596.3	594.4	600.2
62.5°	569.4	562.7	542.6	542.6	546.4
65°	513.7	508.9	488.8	487.8	494.5
67.5°	460.9	451.3	436.0	429.2	425.4
70°	400.4	393.7	382.2	360.1	351.5
72.5°	342.8	336.1	323.6	289.0	286.2
75°	286.2	276.6	259.3	232.4	218.0
77.5°	224.7	221.8	197.8	185.3	191.1
80°	166.1	167.1	149.8	162.3	170.0
82.5°	113.3	109.5	122.0	126.8	129.6
85°	66.3	68.2	77.8	79.7	82.6
87.5°	26.9	31.7	36.5	37.5	41.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)