

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: P392938

Luminaire Tested: **12EN-LD2-39-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392938
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-L83050-W2A-1-U (2700K)
Description: 1X2 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: 3810.9 lumens
Efficiency: N/A
Efficacy: 109.2 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

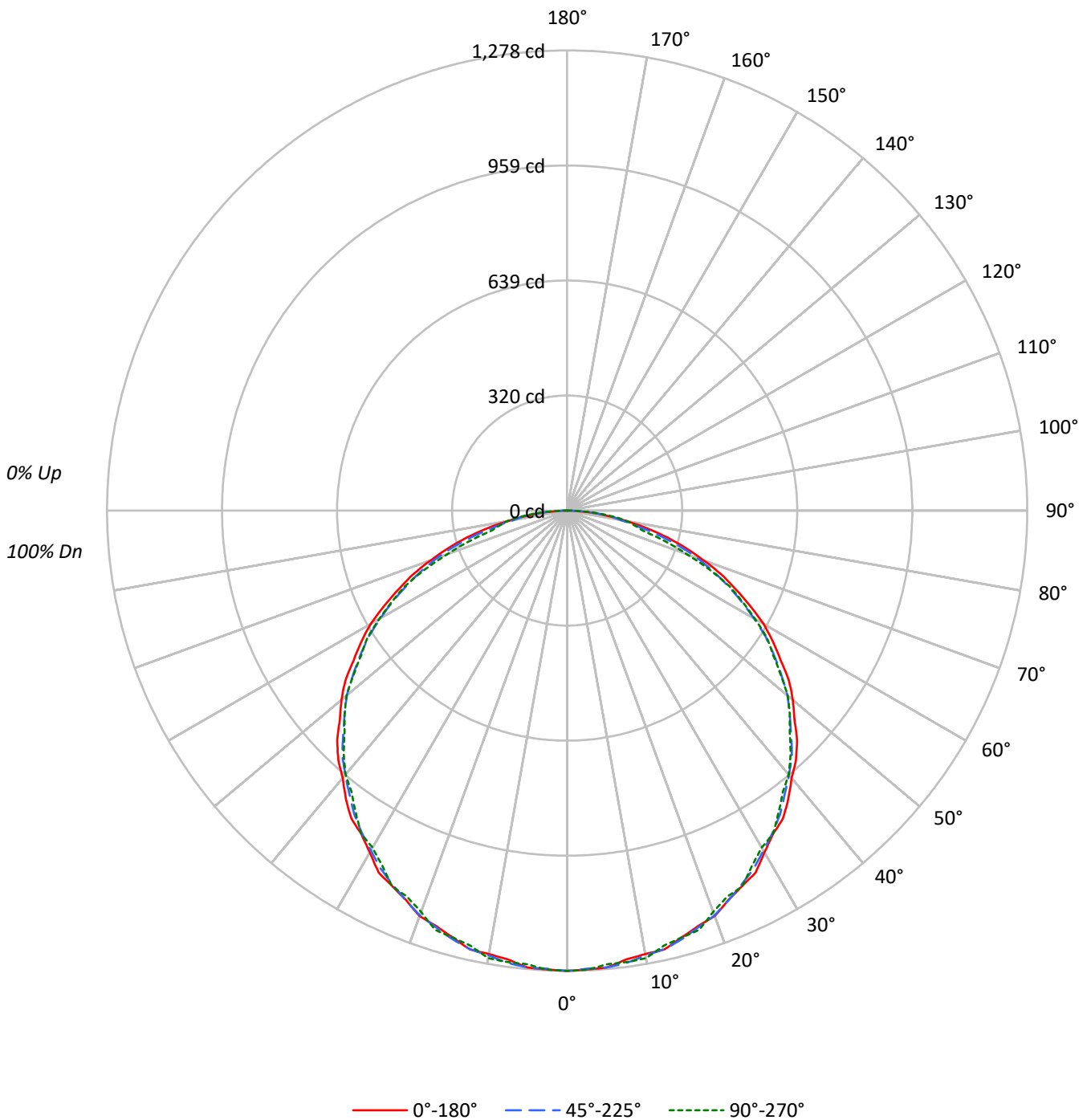
Input Watts (W): 34.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6880	6880	6880
5°	6881	6881	6834
10°	6833	6855	6897
15°	6838	6865	6838
20°	6863	6852	6792
25°	6830	6807	6835
30°	6811	6775	6715
35°	6865	6770	6726
40°	6812	6731	6724
45°	6874	6690	6653
50°	6851	6689	6697
55°	6790	6581	6546
60°	6781	6450	6491
65°	6574	6254	6328
70°	6331	6043	5556
75°	5978	5417	4554
80°	5173	4665	5294
85°	4113	4829	5125



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.2
10°-20°	347.4	9.1
20°-30°	528.6	13.9
30°-40°	644.3	16.9
40°-50°	682.8	17.9
50°-60°	633.0	16.6
60°-70°	492.3	12.9
70°-80°	276.6	7.3
80°-90°	85.0	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°	996.9	26.2
0°-40°	1641.2	43.1
0°-60°	2957.0	77.6
0°-90°	3810.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3810.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1274	1269	1274	1271	1265	121
15°	1227	1228	1232	1232	1227	347
25°	1150	1150	1146	1142	1151	531
35°	1045	1038	1030	1024	1024	650
45°	903	893	879	876	874	694
55°	724	720	701	698	698	649
65°	516	511	491	490	497	512
75°	288	278	260	234	219	301
85°	67	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°	1278.4	1278.4	1278.4	1278.4	1278.4
2.5°	1275.5	1278.4	1273.6	1275.5	1276.5
5°	1273.6	1268.7	1273.6	1270.7	1264.9
7.5°	1257.2	1262.0	1266.8	1267.8	1264.9
10°	1250.4	1260.1	1254.3	1257.2	1262.0
12.5°	1248.5	1244.6	1247.5	1242.7	1237.9
15°	1227.3	1228.2	1232.1	1232.1	1227.3
17.5°	1209.9	1217.6	1212.8	1211.8	1220.5
20°	1198.3	1196.4	1196.4	1192.5	1185.8
22.5°	1170.3	1171.3	1171.3	1169.4	1160.7
25°	1150.1	1150.1	1146.2	1142.3	1151.0
27.5°	1133.7	1125.0	1121.1	1116.3	1111.5
30°	1096.0	1094.1	1090.2	1087.4	1080.6
32.5°	1064.2	1065.2	1061.3	1055.5	1064.2
35°	1044.9	1038.1	1030.4	1023.7	1023.7
37.5°	1009.2	1002.4	992.8	987.0	984.1
40°	969.6	966.8	958.1	952.3	957.1
42.5°	940.7	934.9	924.3	915.6	918.5
45°	903.1	893.4	879.0	876.1	874.1
47.5°	855.8	852.9	838.4	834.6	838.4
50°	818.2	813.3	798.9	791.2	799.8
52.5°	776.7	766.1	749.7	747.7	746.8
55°	723.6	719.8	701.4	697.6	697.6
57.5°	678.3	672.5	654.1	647.4	658.0
60°	630.0	619.4	599.2	597.2	603.0
62.5°	572.1	565.4	545.1	545.1	549.0
65°	516.2	511.4	491.1	490.1	496.9
67.5°	463.1	453.5	438.0	431.3	427.4
70°	402.3	395.6	384.0	361.8	353.1
72.5°	344.4	337.7	325.1	290.4	287.5
75°	287.5	277.9	260.5	233.5	219.0
77.5°	225.8	222.9	198.8	186.2	192.0
80°	166.9	167.9	150.5	163.1	170.8
82.5°	113.8	110.0	122.5	127.4	130.3
85°	66.6	68.5	78.2	80.1	83.0
87.5°	27.0	31.8	36.7	37.6	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)