

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: P392939

Luminaire Tested: **12EN-LD2-39-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392939
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 (3000K)
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: 3886.4 lumens
Efficiency: N/A
Efficacy: 108.3 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

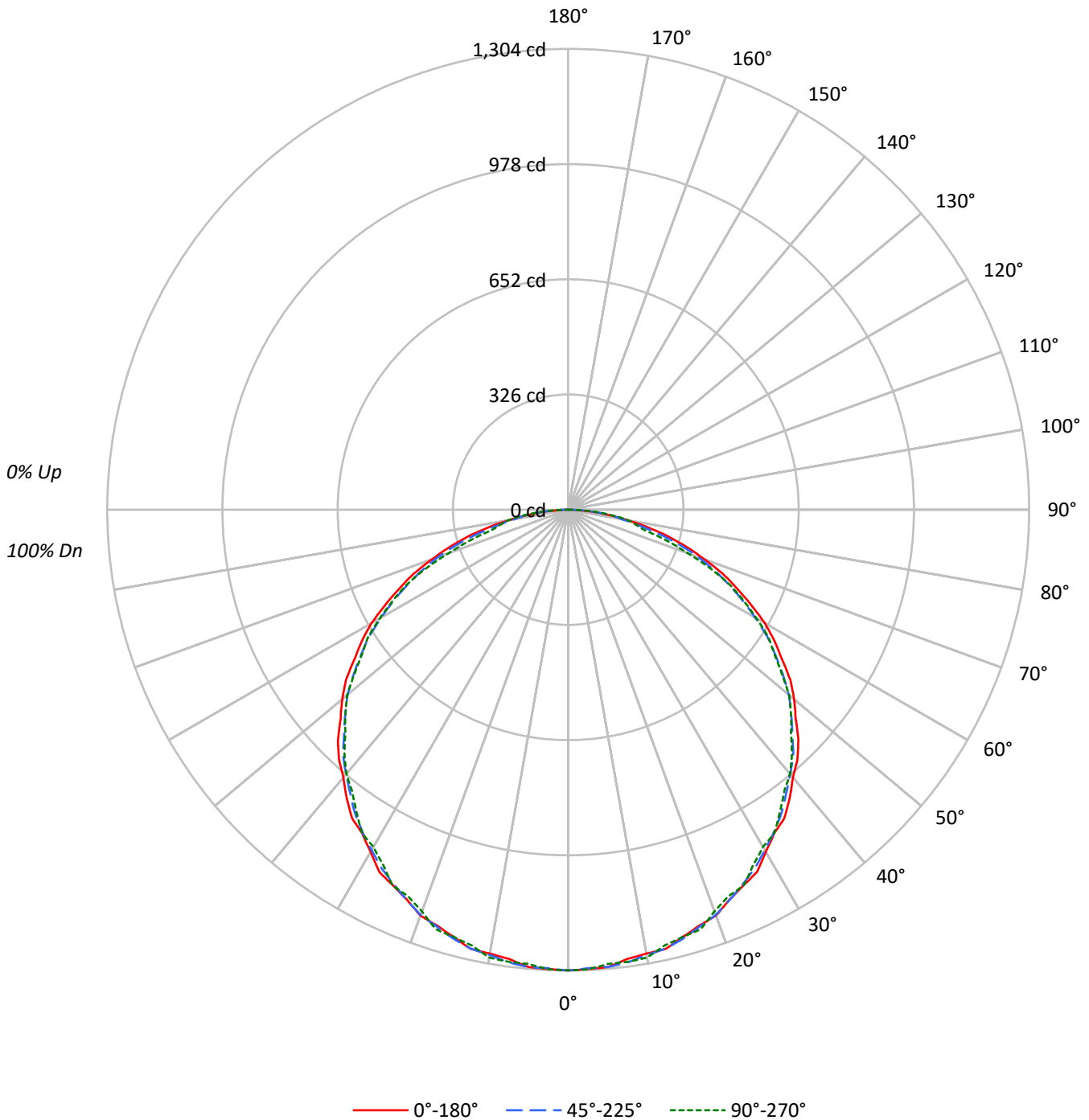
Input Watts (W): 35.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7016	7016	7016
5°	7017	7017	6969
10°	6969	6990	7033
15°	6974	7001	6974
20°	6999	6988	6926
25°	6965	6941	6970
30°	6947	6910	6848
35°	7001	6905	6859
40°	6948	6865	6858
45°	7010	6823	6785
50°	6986	6821	6830
55°	6925	6712	6675
60°	6916	6577	6620
65°	6704	6378	6453
70°	6456	6162	5666
75°	6097	5525	4645
80°	5275	4757	5399
85°	4193	4922	5224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.2
10°-20°	354.3	9.1
20°-30°	539.1	13.9
30°-40°	657.1	16.9
40°-50°	696.3	17.9
50°-60°	645.6	16.6
60°-70°	502.1	12.9
70°-80°	282.1	7.3
80°-90°	86.7	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°	1016.6	26.2
0°-40°	1673.7	43.1
0°-60°	3015.6	77.6
0°-90°	3886.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1299	1294	1299	1296	1290	123
15°	1252	1253	1256	1256	1252	354
25°	1173	1173	1169	1165	1174	542
35°	1066	1059	1051	1044	1044	663
45°	921	911	896	893	892	708
55°	738	734	715	711	711	662
65°	526	522	501	500	507	522
75°	293	283	266	238	223	307
85°	68	70	80	82	85	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1303.7	1303.7	1303.7	1303.7	1303.7
2.5°	1300.8	1303.7	1298.8	1300.8	1301.8
5°	1298.8	1293.9	1298.8	1295.9	1290.0
7.5°	1282.1	1287.0	1291.9	1292.9	1290.0
10°	1275.2	1285.0	1279.1	1282.1	1287.0
12.5°	1273.2	1269.3	1272.2	1267.3	1262.4
15°	1251.6	1252.6	1256.5	1256.5	1251.6
17.5°	1233.9	1241.7	1236.8	1235.8	1244.7
20°	1222.1	1220.1	1220.1	1216.2	1209.3
22.5°	1193.5	1194.5	1194.5	1192.5	1183.7
25°	1172.9	1172.9	1168.9	1165.0	1173.8
27.5°	1156.1	1147.3	1143.3	1138.4	1133.5
30°	1117.8	1115.8	1111.9	1108.9	1102.0
32.5°	1085.3	1086.3	1082.3	1076.4	1085.3
35°	1065.6	1058.7	1050.9	1044.0	1044.0
37.5°	1029.2	1022.3	1012.5	1006.6	1003.6
40°	988.9	985.9	977.1	971.2	976.1
42.5°	959.3	953.4	942.6	933.8	936.7
45°	921.0	911.1	896.4	893.4	891.5
47.5°	872.8	869.8	855.1	851.1	855.1
50°	834.4	829.5	814.7	806.8	815.7
52.5°	792.1	781.3	764.5	762.6	761.6
55°	738.0	734.0	715.3	711.4	711.4
57.5°	691.7	685.8	667.1	660.2	671.1
60°	642.5	631.7	611.0	609.1	615.0
62.5°	583.5	576.6	555.9	555.9	559.9
65°	526.4	521.5	500.8	499.8	506.7
67.5°	472.3	462.5	446.7	439.8	435.9
70°	410.3	403.4	391.6	369.0	360.1
72.5°	351.3	344.4	331.6	296.2	293.2
75°	293.2	283.4	265.7	238.1	223.4
77.5°	230.2	227.3	202.7	189.9	195.8
80°	170.2	171.2	153.5	166.3	174.2
82.5°	116.1	112.2	125.0	129.9	132.8
85°	67.9	69.9	79.7	81.7	84.6
87.5°	27.6	32.5	37.4	38.4	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)