

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: P392936

Luminaire Tested: **12EN-LD2-39-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392936
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 (5700K)
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: 3806.9 lumens
Efficiency: N/A
Efficacy: 108.8 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

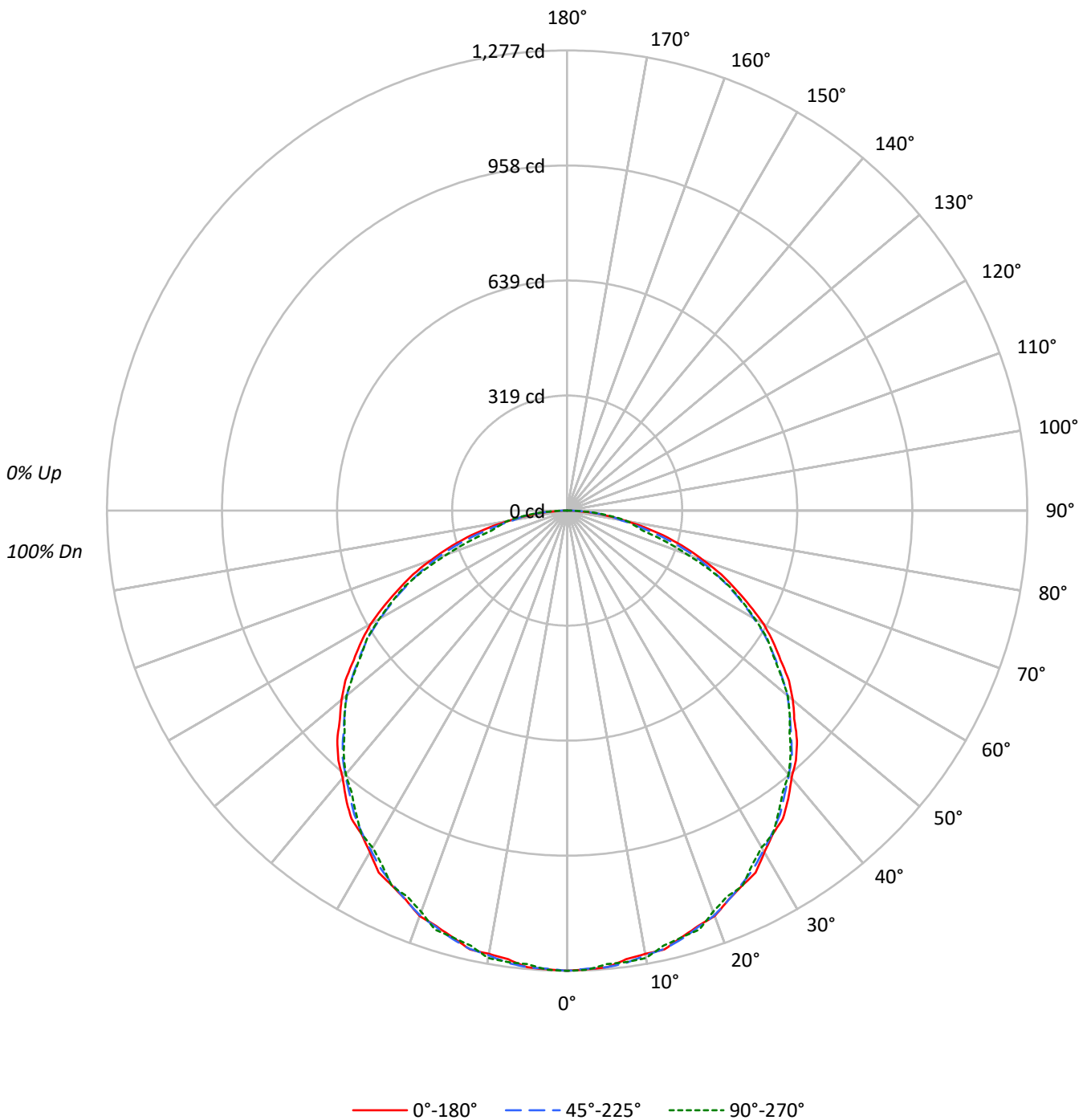
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P392936

CATALOG NUMBER: 12EN-LD2-39-UNV-L82765-W2A-1-U (5700K)

Luminous Intensity Polar Plot





TEST NUMBER: P392936

CATALOG NUMBER: 12EN-LD2-39-UNV-L82765-W2A-1-U (5700K)

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°	6873	6873	6873
5°	6873	6873	6827
10°	6826	6848	6890
15°	6831	6858	6831
20°	6856	6845	6784
25°	6823	6799	6828
30°	6804	6768	6709
35°	6858	6763	6719
40°	6805	6724	6717
45°	6866	6683	6646
50°	6843	6682	6690
55°	6783	6575	6538
60°	6775	6442	6484
65°	6566	6248	6322
70°	6324	6036	5552
75°	5972	5411	4550
80°	5167	4661	5287
85°	4106	4823	5119



TEST NUMBER: P392936

CATALOG NUMBER: 12EN-LD2-39-UNV-L82765-W2A-1-U (5700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	3.2
10°-20°	347.0	9.1
20°-30°	528.1	13.9
30°-40°	643.7	16.9
40°-50°	682.0	17.9
50°-60°	632.4	16.6
60°-70°	491.8	12.9
70°-80°	276.3	7.3
80°-90°	84.9	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°	995.8	26.2
0°-40°	1639.5	43.1
0°-60°	2953.9	77.6
0°-90°	3806.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3806.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1272	1267	1272	1269	1264	120
15°	1226	1227	1231	1231	1226	347
25°	1149	1149	1145	1141	1150	531
35°	1044	1037	1029	1023	1023	650
45°	902	892	878	875	873	693
55°	723	719	701	697	697	649
65°	516	511	491	490	496	511
75°	287	278	260	233	219	301
85°	66	68	78	80	83	79
90°	0	0	0	0	0	



TEST NUMBER: P392936

CATALOG NUMBER: 12EN-LD2-39-UNV-L82765-W2A-1-U (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1277.1	1277.1	1277.1	1277.1	1277.1
2.5°	1274.2	1277.1	1272.2	1274.2	1275.1
5°	1272.2	1267.4	1272.2	1269.3	1263.6
7.5°	1255.9	1260.7	1265.5	1266.5	1263.6
10°	1249.1	1258.7	1253.0	1255.9	1260.7
12.5°	1247.2	1243.3	1246.2	1241.4	1236.6
15°	1226.0	1226.9	1230.8	1230.8	1226.0
17.5°	1208.6	1216.3	1211.5	1210.6	1219.2
20°	1197.1	1195.1	1195.1	1191.3	1184.5
22.5°	1169.1	1170.1	1170.1	1168.1	1159.5
25°	1148.9	1148.9	1145.0	1141.2	1149.8
27.5°	1132.5	1123.8	1120.0	1115.1	1110.3
30°	1094.9	1093.0	1089.1	1086.2	1079.5
32.5°	1063.1	1064.1	1060.2	1054.4	1063.1
35°	1043.8	1037.1	1029.4	1022.6	1022.6
37.5°	1008.2	1001.4	991.8	986.0	983.1
40°	968.6	965.7	957.1	951.3	956.1
42.5°	939.7	933.9	923.3	914.7	917.6
45°	902.1	892.5	878.0	875.1	873.2
47.5°	854.9	852.0	837.6	833.7	837.6
50°	817.3	812.5	798.0	790.3	799.0
52.5°	775.9	765.3	748.9	747.0	746.0
55°	722.9	719.0	700.7	696.8	696.8
57.5°	677.6	671.8	653.5	646.7	657.3
60°	629.4	618.8	598.5	596.6	602.4
62.5°	571.5	564.8	544.6	544.6	548.4
65°	515.6	510.8	490.6	489.6	496.4
67.5°	462.6	453.0	437.6	430.8	427.0
70°	401.9	395.2	383.6	361.4	352.8
72.5°	344.1	337.3	324.8	290.1	287.2
75°	287.2	277.6	260.2	233.2	218.8
77.5°	225.5	222.6	198.5	186.0	191.8
80°	166.7	167.7	150.4	162.9	170.6
82.5°	113.7	109.9	122.4	127.2	130.1
85°	66.5	68.4	78.1	80.0	82.9
87.5°	27.0	31.8	36.6	37.6	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)