

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: P392934

Luminaire Tested: **12EN-LD2-39-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392934
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 (4500K)
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: 3799.0 lumens
Efficiency: N/A
Efficacy: 107.6 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

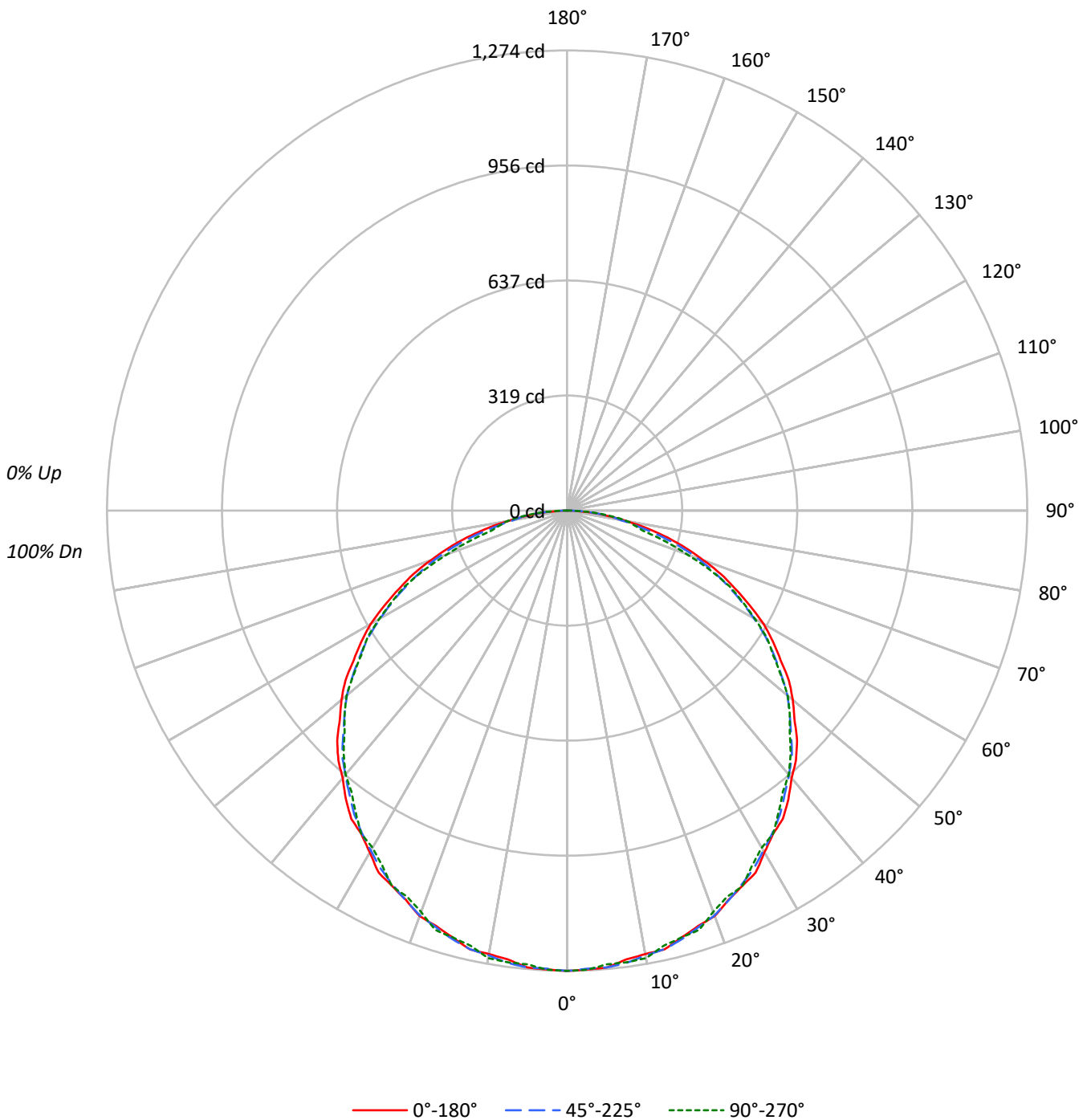
Input Watts (W): 35.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6859	6859	6859
5°	6859	6859	6813
10°	6812	6833	6875
15°	6817	6844	6817
20°	6842	6831	6770
25°	6808	6786	6814
30°	6790	6755	6695
35°	6844	6749	6705
40°	6791	6710	6703
45°	6852	6669	6632
50°	6829	6668	6677
55°	6769	6562	6525
60°	6761	6429	6470
65°	6553	6235	6308
70°	6312	6024	5539
75°	5960	5400	4539
80°	5157	4649	5275
85°	4100	4810	5107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	3.2
10°-20°	346.3	9.1
20°-30°	527.0	13.9
30°-40°	642.3	16.9
40°-50°	680.6	17.9
50°-60°	631.1	16.6
60°-70°	490.8	12.9
70°-80°	275.7	7.3
80°-90°	84.7	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°	993.8	26.2
0°-40°	1636.1	43.1
0°-60°	2947.8	77.6
0°-90°	3799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1270	1265	1270	1267	1261	120
15°	1223	1224	1228	1228	1223	346
25°	1146	1146	1143	1139	1148	530
35°	1042	1035	1027	1020	1020	648
45°	900	891	876	873	871	692
55°	721	718	699	695	695	647
65°	515	510	490	489	495	510
75°	287	277	260	233	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°	1274.4	1274.4	1274.4	1274.4	1274.4
2.5°	1271.5	1274.4	1269.6	1271.5	1272.5
5°	1269.6	1264.8	1269.6	1266.7	1261.0
7.5°	1253.3	1258.1	1262.9	1263.8	1261.0
10°	1246.5	1256.2	1250.4	1253.3	1258.1
12.5°	1244.6	1240.8	1243.6	1238.8	1234.0
15°	1223.4	1224.4	1228.3	1228.3	1223.4
17.5°	1206.1	1213.8	1209.0	1208.1	1216.7
20°	1194.6	1192.7	1192.7	1188.8	1182.1
22.5°	1166.7	1167.7	1167.7	1165.7	1157.1
25°	1146.5	1146.5	1142.7	1138.8	1147.5
27.5°	1130.2	1121.5	1117.6	1112.8	1108.0
30°	1092.6	1090.7	1086.9	1084.0	1077.3
32.5°	1060.9	1061.9	1058.0	1052.2	1060.9
35°	1041.7	1034.9	1027.2	1020.5	1020.5
37.5°	1006.1	999.3	989.7	984.0	981.1
40°	966.6	963.8	955.1	949.3	954.1
42.5°	937.8	932.0	921.4	912.8	915.7
45°	900.3	890.7	876.2	873.3	871.4
47.5°	853.1	850.3	835.8	832.0	835.8
50°	815.6	810.8	796.4	788.7	797.4
52.5°	774.3	763.7	747.3	745.4	744.5
55°	721.4	717.5	699.3	695.4	695.4
57.5°	676.2	670.4	652.1	645.4	656.0
60°	628.1	617.5	597.3	595.4	601.1
62.5°	570.4	563.6	543.4	543.4	547.3
65°	514.6	509.8	489.6	488.6	495.3
67.5°	461.7	452.1	436.7	429.9	426.1
70°	401.1	394.4	382.8	360.7	352.0
72.5°	343.4	336.6	324.1	289.5	286.6
75°	286.6	277.0	259.7	232.8	218.3
77.5°	225.1	222.2	198.1	185.6	191.4
80°	166.4	167.4	150.0	162.5	170.2
82.5°	113.5	109.6	122.2	127.0	129.8
85°	66.4	68.3	77.9	79.8	82.7
87.5°	26.9	31.7	36.5	37.5	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)