

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: P392931

Luminaire Tested: **12EN-LD2-39-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392931
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 (3000K)
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: 3622.8 lumens
Efficiency: N/A
Efficacy: 102.3 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

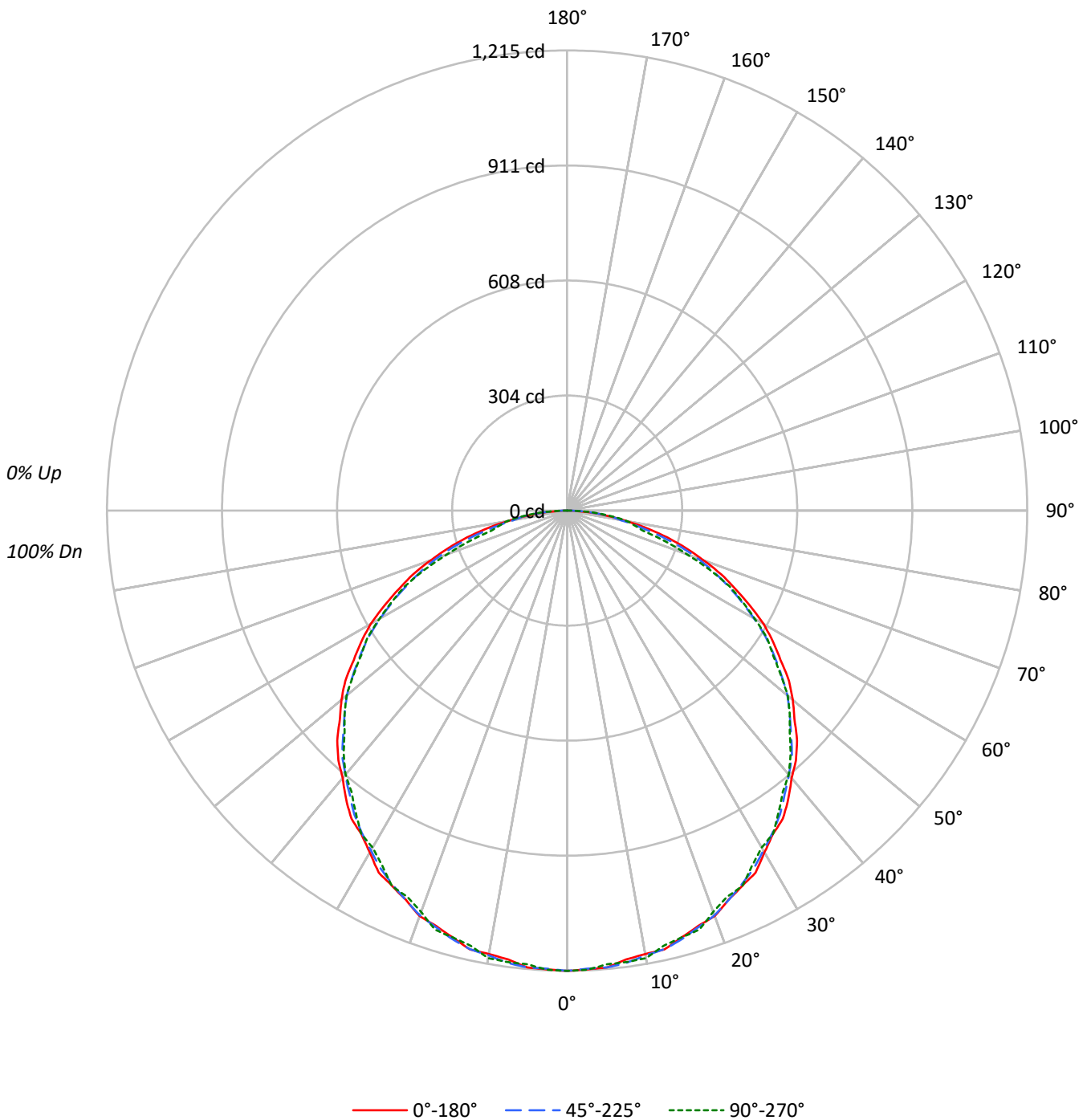
Input Watts (W): 35.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6541	6541	6541
5°	6541	6541	6497
10°	6496	6516	6556
15°	6501	6526	6501
20°	6525	6514	6456
25°	6492	6471	6498
30°	6476	6441	6384
35°	6526	6436	6394
40°	6476	6399	6393
45°	6534	6360	6325
50°	6512	6359	6367
55°	6455	6257	6222
60°	6447	6131	6171
65°	6249	5946	6016
70°	6019	5745	5283
75°	5683	5149	4329
80°	4919	4435	5030
85°	3909	4588	4872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	3.2
10°-20°	330.2	9.1
20°-30°	502.5	13.9
30°-40°	612.5	16.9
40°-50°	649.1	17.9
50°-60°	601.8	16.6
60°-70°	468.0	12.9
70°-80°	262.9	7.3
80°-90°	80.8	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°	947.7	26.2
0°-40°	1560.2	43.1
0°-60°	2811.1	77.6
0°-90°	3622.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3622.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1215	1215	1215	1215	1215	
5°	1211	1206	1211	1208	1202	115
15°	1167	1168	1171	1171	1167	330
25°	1093	1093	1090	1086	1094	505
35°	993	987	980	973	973	618
45°	858	849	836	833	831	660
55°	688	684	667	663	663	617
65°	491	486	467	466	472	486
75°	273	264	248	222	208	286
85°	63	65	74	76	79	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1215.3	1215.3	1215.3	1215.3	1215.3
2.5°	1212.6	1215.3	1210.7	1212.6	1213.5
5°	1210.7	1206.1	1210.7	1208.0	1202.5
7.5°	1195.1	1199.7	1204.3	1205.2	1202.5
10°	1188.7	1197.9	1192.4	1195.1	1199.7
12.5°	1186.9	1183.2	1186.0	1181.4	1176.8
15°	1166.7	1167.6	1171.3	1171.3	1166.7
17.5°	1150.2	1157.5	1152.9	1152.0	1160.3
20°	1139.2	1137.4	1137.4	1133.7	1127.3
22.5°	1112.6	1113.5	1113.5	1111.7	1103.4
25°	1093.3	1093.3	1089.7	1086.0	1094.2
27.5°	1077.7	1069.5	1065.8	1061.2	1056.6
30°	1042.0	1040.1	1036.5	1033.7	1027.3
32.5°	1011.7	1012.6	1008.9	1003.4	1011.7
35°	993.3	986.9	979.6	973.2	973.2
37.5°	959.4	953.0	943.8	938.3	935.6
40°	921.8	919.1	910.8	905.3	909.9
42.5°	894.3	888.8	878.7	870.4	873.2
45°	858.5	849.3	835.6	832.8	831.0
47.5°	813.6	810.8	797.1	793.4	797.1
50°	777.8	773.2	759.5	752.1	760.4
52.5°	738.4	728.3	712.7	710.8	709.9
55°	687.9	684.2	666.8	663.1	663.1
57.5°	644.8	639.3	621.9	615.5	625.5
60°	598.9	588.9	569.6	567.8	573.3
62.5°	543.9	537.5	518.2	518.2	521.9
65°	490.7	486.1	466.9	465.9	472.4
67.5°	440.3	431.1	416.4	410.0	406.3
70°	382.5	376.1	365.1	344.0	335.7
72.5°	327.4	321.0	309.1	276.1	273.3
75°	273.3	264.2	247.6	222.0	208.2
77.5°	214.6	211.9	188.9	177.0	182.5
80°	158.7	159.6	143.1	155.0	162.3
82.5°	108.2	104.6	116.5	121.1	123.8
85°	63.3	65.1	74.3	76.1	78.9
87.5°	25.7	30.3	34.9	35.8	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)