

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: P392952

Luminaire Tested: **12EN-LD2-39-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392952
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-L92765-W2A-1-U (5700K)
Description: 1X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3380.5 lumens
Efficiency: N/A
Efficacy: 95.8 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

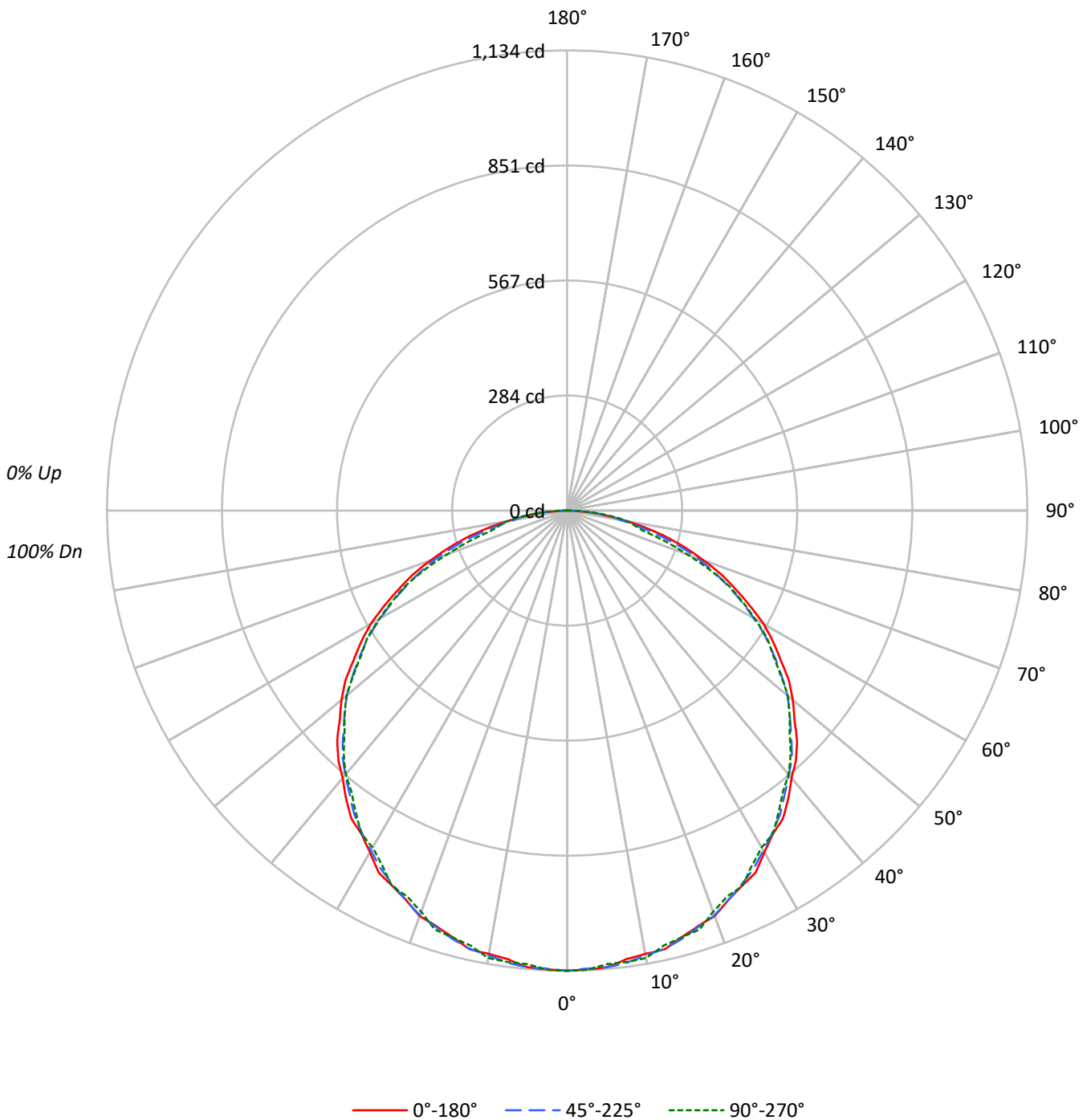
Input Watts (W): 35.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6103	6103	6103
5°	6103	6103	6062
10°	6062	6080	6118
15°	6066	6089	6066
20°	6088	6078	6025
25°	6058	6038	6064
30°	6042	6010	5957
35°	6090	6006	5966
40°	6043	5971	5965
45°	6097	5934	5902
50°	6077	5934	5941
55°	6023	5838	5806
60°	6016	5721	5758
65°	5831	5547	5613
70°	5616	5360	4928
75°	5303	4806	4040
80°	4590	4138	4696
85°	3649	4279	4545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.2
10°-20°	308.1	9.1
20°-30°	468.9	13.9
30°-40°	571.6	16.9
40°-50°	605.7	17.9
50°-60°	561.5	16.6
60°-70°	436.7	12.9
70°-80°	245.3	7.3
80°-90°	75.4	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°	884.3	26.2
0°-40°	1455.9	43.1
0°-60°	2623.1	77.6
0°-90°	3380.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3380.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1130	1126	1130	1127	1122	107
15°	1089	1090	1093	1093	1089	308
25°	1020	1020	1017	1013	1021	471
35°	927	921	914	908	908	577
45°	801	792	780	777	775	616
55°	642	638	622	619	619	576
65°	458	454	436	435	441	454
75°	255	246	231	207	194	267
85°	59	61	69	71	74	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.0	1134.0	1134.0	1134.0	1134.0
2.5°	1131.5	1134.0	1129.7	1131.5	1132.3
5°	1129.7	1125.5	1129.7	1127.2	1122.0
7.5°	1115.2	1119.5	1123.8	1124.6	1122.0
10°	1109.2	1117.8	1112.6	1115.2	1119.5
12.5°	1107.5	1104.1	1106.6	1102.4	1098.1
15°	1088.7	1089.5	1092.9	1092.9	1088.7
17.5°	1073.3	1080.1	1075.8	1075.0	1082.7
20°	1063.0	1061.3	1061.3	1057.9	1051.9
22.5°	1038.2	1039.0	1039.0	1037.3	1029.6
25°	1020.2	1020.2	1016.8	1013.3	1021.1
27.5°	1005.6	997.9	994.5	990.2	986.0
30°	972.3	970.6	967.1	964.6	958.6
32.5°	944.0	944.9	941.5	936.3	944.0
35°	926.9	920.9	914.1	908.1	908.1
37.5°	895.2	889.2	880.7	875.6	873.0
40°	860.1	857.6	849.9	844.7	849.0
42.5°	834.5	829.3	819.9	812.2	814.8
45°	801.1	792.5	779.7	777.1	775.4
47.5°	759.2	756.6	743.7	740.3	743.7
50°	725.8	721.5	708.7	701.8	709.5
52.5°	689.0	679.6	665.0	663.3	662.4
55°	641.9	638.5	622.2	618.8	618.8
57.5°	601.7	596.5	580.3	574.3	583.7
60°	558.9	549.5	531.5	529.8	534.9
62.5°	507.5	501.5	483.6	483.6	487.0
65°	457.9	453.6	435.6	434.8	440.8
67.5°	410.8	402.3	388.6	382.6	379.1
70°	356.9	350.9	340.6	321.0	313.2
72.5°	305.5	299.6	288.4	257.6	255.0
75°	255.0	246.5	231.1	207.1	194.3
77.5°	200.3	197.7	176.3	165.2	170.3
80°	148.1	148.9	133.5	144.6	151.5
82.5°	101.0	97.6	108.7	113.0	115.5
85°	59.1	60.8	69.3	71.0	73.6
87.5°	24.0	28.2	32.5	33.4	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)