

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: P392951

Luminaire Tested: **12EN-LD2-39-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392951
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 (5000K)
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: 3329.3 lumens
Efficiency: N/A
Efficacy: 94.3 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

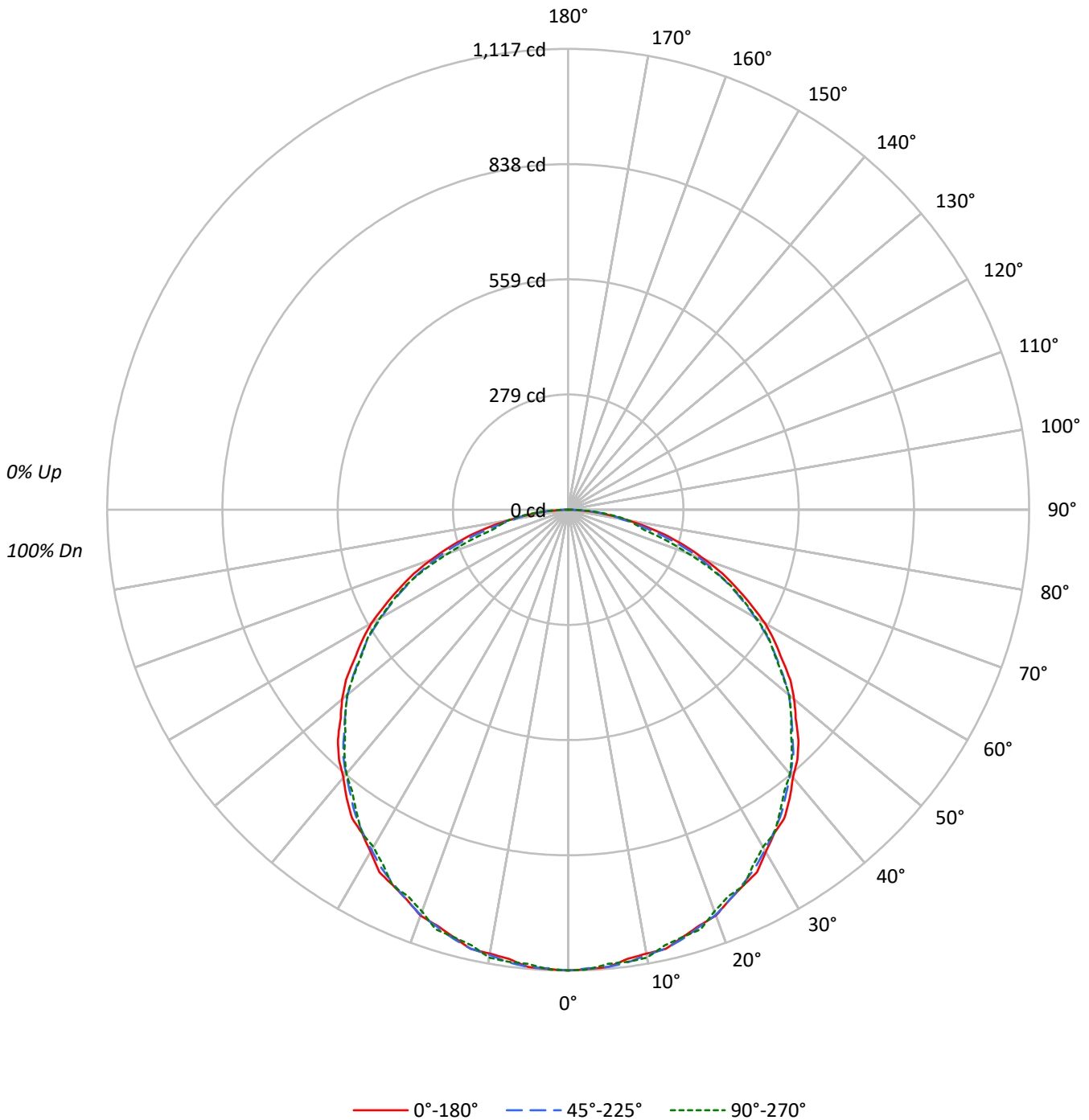
Input Watts (W): 35.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6011	6011	6011
5°	6011	6011	5970
10°	5970	5989	6025
15°	5974	5997	5974
20°	5996	5986	5933
25°	5966	5947	5972
30°	5950	5919	5867
35°	5998	5914	5876
40°	5951	5880	5875
45°	6005	5845	5813
50°	5985	5843	5851
55°	5932	5750	5718
60°	5924	5634	5670
65°	5743	5463	5528
70°	5531	5279	4854
75°	5224	4733	3978
80°	4519	4076	4624
85°	3594	4218	4477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	3.2
10°-20°	303.5	9.1
20°-30°	461.8	13.9
30°-40°	562.9	16.9
40°-50°	596.5	17.9
50°-60°	553.0	16.6
60°-70°	430.1	12.9
70°-80°	241.6	7.3
80°-90°	74.2	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°	870.9	26.2
0°-40°	1433.8	43.1
0°-60°	2583.3	77.6
0°-90°	3329.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3329.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1113	1108	1113	1110	1105	105
15°	1072	1073	1076	1076	1072	303
25°	1005	1005	1001	998	1006	464
35°	913	907	900	894	894	568
45°	789	780	768	765	764	606
55°	632	629	613	609	609	567
65°	451	447	429	428	434	447
75°	251	243	228	204	191	263
85°	58	60	68	70	72	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.8	1116.8	1116.8	1116.8	1116.8
2.5°	1114.3	1116.8	1112.6	1114.3	1115.2
5°	1112.6	1108.4	1112.6	1110.1	1105.0
7.5°	1098.3	1102.5	1106.7	1107.6	1105.0
10°	1092.4	1100.8	1095.8	1098.3	1102.5
12.5°	1090.7	1087.3	1089.9	1085.7	1081.4
15°	1072.2	1073.0	1076.4	1076.4	1072.2
17.5°	1057.0	1063.7	1059.5	1058.7	1066.3
20°	1046.9	1045.2	1045.2	1041.8	1035.9
22.5°	1022.4	1023.3	1023.3	1021.6	1014.0
25°	1004.7	1004.7	1001.4	998.0	1005.6
27.5°	990.4	982.8	979.4	975.2	971.0
30°	957.5	955.8	952.5	949.9	944.0
32.5°	929.7	930.6	927.2	922.1	929.7
35°	912.9	907.0	900.2	894.3	894.3
37.5°	881.7	875.8	867.3	862.3	859.8
40°	847.1	844.6	837.0	831.9	836.2
42.5°	821.8	816.8	807.5	799.9	802.4
45°	789.0	780.5	767.9	765.4	763.7
47.5°	747.7	745.1	732.5	729.1	732.5
50°	714.8	710.6	697.9	691.2	698.8
52.5°	678.5	669.3	654.9	653.2	652.4
55°	632.2	628.8	612.8	609.4	609.4
57.5°	592.6	587.5	571.5	565.6	574.9
60°	550.4	541.1	523.4	521.8	526.8
62.5°	499.8	493.9	476.2	476.2	479.6
65°	451.0	446.7	429.0	428.2	434.1
67.5°	404.6	396.2	382.7	376.8	373.4
70°	351.5	345.6	335.5	316.1	308.5
72.5°	300.9	295.0	284.1	253.7	251.2
75°	251.2	242.8	227.6	204.0	191.3
77.5°	197.2	194.7	173.6	162.7	167.7
80°	145.8	146.7	131.5	142.5	149.2
82.5°	99.5	96.1	107.0	111.3	113.8
85°	58.2	59.8	68.3	70.0	72.5
87.5°	23.6	27.8	32.0	32.9	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)