

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: P392956

Luminaire Tested: **12EN-LD2-39-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392956
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-L93050-W2A-1-U (3500K)
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: 3321.5 lumens
Efficiency: N/A
Efficacy: 94.1 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

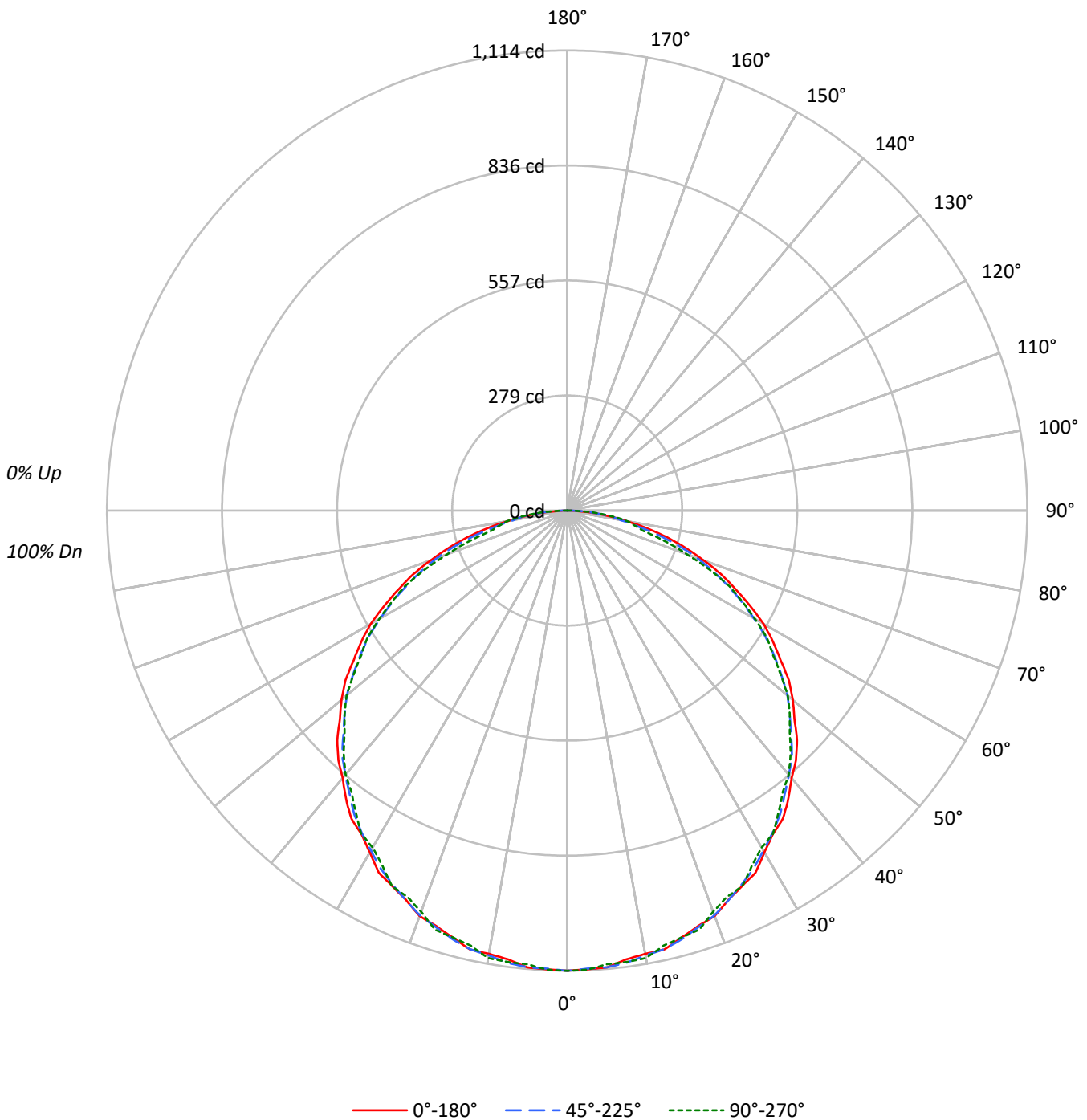
Input Watts (W): 35.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5997	5997	5997
5°	5997	5997	5956
10°	5956	5974	6011
15°	5960	5984	5960
20°	5982	5972	5919
25°	5953	5932	5957
30°	5937	5905	5853
35°	5983	5901	5862
40°	5937	5866	5861
45°	5991	5831	5799
50°	5971	5830	5837
55°	5918	5737	5705
60°	5910	5621	5658
65°	5729	5450	5515
70°	5519	5267	4843
75°	5211	4722	3970
80°	4510	4066	4612
85°	3582	4205	4465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	3.2
10°-20°	302.8	9.1
20°-30°	460.7	13.9
30°-40°	561.6	16.9
40°-50°	595.1	17.9
50°-60°	551.7	16.6
60°-70°	429.1	12.9
70°-80°	241.1	7.3
80°-90°	74.0	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°	868.9	26.2
0°-40°	1430.4	43.1
0°-60°	2577.3	77.6
0°-90°	3321.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1110	1106	1110	1108	1102	105
15°	1070	1070	1074	1074	1070	302
25°	1002	1002	999	996	1003	463
35°	911	905	898	892	892	567
45°	787	779	766	764	762	605
55°	631	627	611	608	608	566
65°	450	446	428	427	433	446
75°	251	242	227	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°	1114.2	1114.2	1114.2	1114.2	1114.2
2.5°	1111.7	1114.2	1110.0	1111.7	1112.5
5°	1110.0	1105.8	1110.0	1107.5	1102.5
7.5°	1095.7	1099.9	1104.1	1105.0	1102.5
10°	1089.8	1098.3	1093.2	1095.7	1099.9
12.5°	1088.2	1084.8	1087.3	1083.1	1078.9
15°	1069.7	1070.5	1073.9	1073.9	1069.7
17.5°	1054.5	1061.3	1057.0	1056.2	1063.8
20°	1044.4	1042.8	1042.8	1039.4	1033.5
22.5°	1020.0	1020.9	1020.9	1019.2	1011.6
25°	1002.4	1002.4	999.0	995.7	1003.2
27.5°	988.1	980.5	977.2	973.0	968.7
30°	955.3	953.6	950.2	947.7	941.8
32.5°	927.5	928.4	925.0	920.0	927.5
35°	910.7	904.8	898.1	892.2	892.2
37.5°	879.6	873.7	865.3	860.3	857.7
40°	845.1	842.6	835.0	830.0	834.2
42.5°	819.9	814.9	805.6	798.0	800.6
45°	787.1	778.7	766.1	763.6	761.9
47.5°	745.9	743.4	730.8	727.4	730.8
50°	713.1	708.9	696.3	689.6	697.1
52.5°	676.9	667.7	653.4	651.7	650.9
55°	630.7	627.3	611.4	608.0	608.0
57.5°	591.2	586.1	570.1	564.3	573.5
60°	549.1	539.9	522.2	520.5	525.6
62.5°	498.7	492.8	475.1	475.1	478.5
65°	449.9	445.7	428.0	427.2	433.1
67.5°	403.6	395.2	381.8	375.9	372.5
70°	350.7	344.8	334.7	315.3	307.8
72.5°	300.2	294.3	283.4	253.1	250.6
75°	250.6	242.2	227.1	203.5	190.9
77.5°	196.8	194.3	173.2	162.3	167.3
80°	145.5	146.3	131.2	142.1	148.8
82.5°	99.2	95.9	106.8	111.0	113.5
85°	58.0	59.7	68.1	69.8	72.3
87.5°	23.5	27.8	32.0	32.8	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)