

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: P392900

Luminaire Tested: **12EN-LD2-35-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-35-UNV-L82765-W2A-1-U (3500K)
Description: 1X2 ENCOUNTER, 3500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3308.6 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

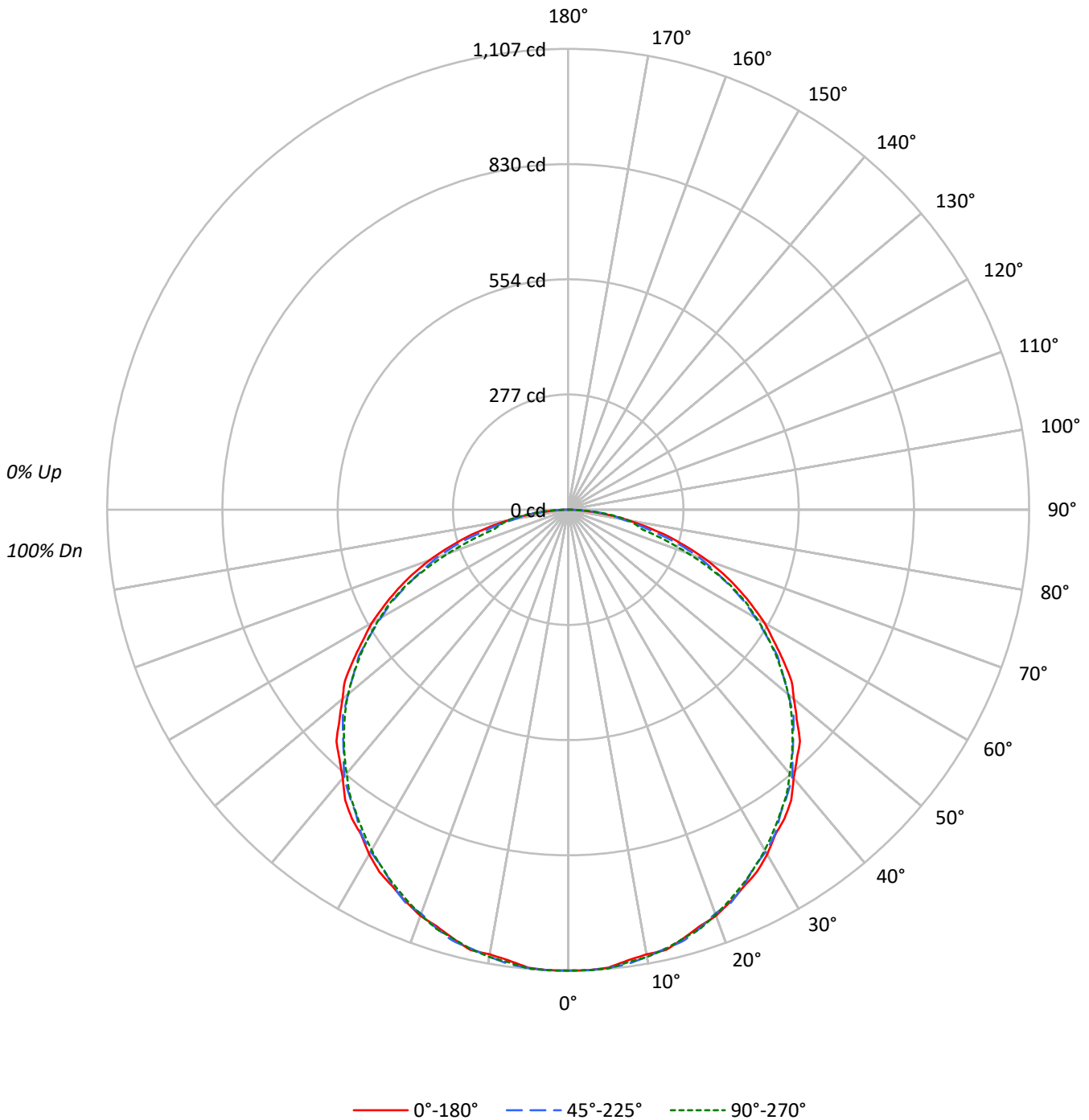
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	40	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°	5959	5959	5959
5°	5966	5971	5976
10°	5926	5957	5963
15°	5942	5974	5942
20°	5945	5913	5929
25°	5928	5917	5894
30°	5939	5898	5868
35°	5949	5843	5837
40°	5916	5882	5816
45°	5991	5817	5796
50°	5924	5773	5781
55°	5910	5758	5714
60°	5862	5586	5627
65°	5741	5403	5463
70°	5574	5260	4829
75°	5180	4668	3859
80°	4522	4023	4550
85°	3625	4329	4384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.2
10°-20°	301.5	9.1
20°-30°	459.1	13.9
30°-40°	560.0	16.9
40°-50°	592.6	17.9
50°-60°	549.0	16.6
60°-70°	427.6	12.9
70°-80°	239.9	7.2
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°	865.6	26.2
0°-40°	1425.5	43.1
0°-60°	2567.1	77.6
0°-90°	3308.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1104	1105	1105	1107	1106	105
15°	1066	1068	1072	1068	1066	301
25°	998	996	996	990	993	461
35°	905	898	889	887	888	566
45°	787	778	764	762	762	602
55°	630	625	614	605	609	563
65°	451	442	424	427	429	446
75°	249	242	224	201	186	262
85°	59	61	70	71	71	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.2	1107.2	1107.2	1107.2	1107.2
2.5°	1107.2	1105.3	1107.2	1106.2	1107.2
5°	1104.3	1105.3	1105.3	1107.2	1106.2
7.5°	1092.0	1096.8	1100.5	1099.6	1096.8
10°	1084.4	1089.2	1090.1	1088.2	1091.1
12.5°	1083.5	1084.4	1079.7	1082.6	1080.7
15°	1066.4	1068.3	1072.1	1068.3	1066.4
17.5°	1049.4	1053.2	1054.1	1051.3	1055.1
20°	1038.0	1040.9	1032.4	1036.1	1035.2
22.5°	1019.1	1020.0	1021.9	1015.3	1014.4
25°	998.3	996.4	996.4	989.7	992.6
27.5°	981.2	974.6	967.0	970.8	968.9
30°	955.6	954.7	949.0	945.2	944.3
32.5°	925.3	926.3	924.4	915.9	916.8
35°	905.4	897.9	889.3	887.4	888.4
37.5°	879.9	873.2	863.8	860.9	861.9
40°	842.0	841.0	837.2	825.9	827.8
42.5°	812.6	806.9	797.5	792.7	795.6
45°	787.1	777.6	764.3	762.4	761.5
47.5°	744.4	742.5	734.0	723.6	727.4
50°	707.5	703.7	689.5	683.8	690.4
52.5°	676.2	666.8	649.7	648.8	649.7
55°	629.8	625.1	613.7	605.2	609.0
57.5°	584.4	580.6	564.5	561.6	566.4
60°	544.6	538.0	519.0	518.1	522.8
62.5°	497.2	492.5	475.5	475.5	480.2
65°	450.8	442.3	424.3	427.1	429.0
67.5°	403.5	393.1	377.0	374.1	368.4
70°	354.2	343.8	334.3	316.3	306.9
72.5°	300.2	292.7	282.2	254.8	245.3
75°	249.1	241.5	224.5	200.8	185.6
77.5°	195.1	192.3	172.4	162.9	166.7
80°	145.9	144.9	129.8	142.1	146.8
82.5°	99.4	95.7	105.1	110.8	110.8
85°	58.7	60.6	70.1	71.0	71.0
87.5°	23.7	27.5	32.2	34.1	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)