

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: P392916

Luminaire Tested: **12EN-LD2-35-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392916
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-L92765-W2A-1-U (3500K)
Description: 1X2 ENCOUNTER, 3500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2766.6 lumens
Efficiency: N/A
Efficacy: 91.0 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

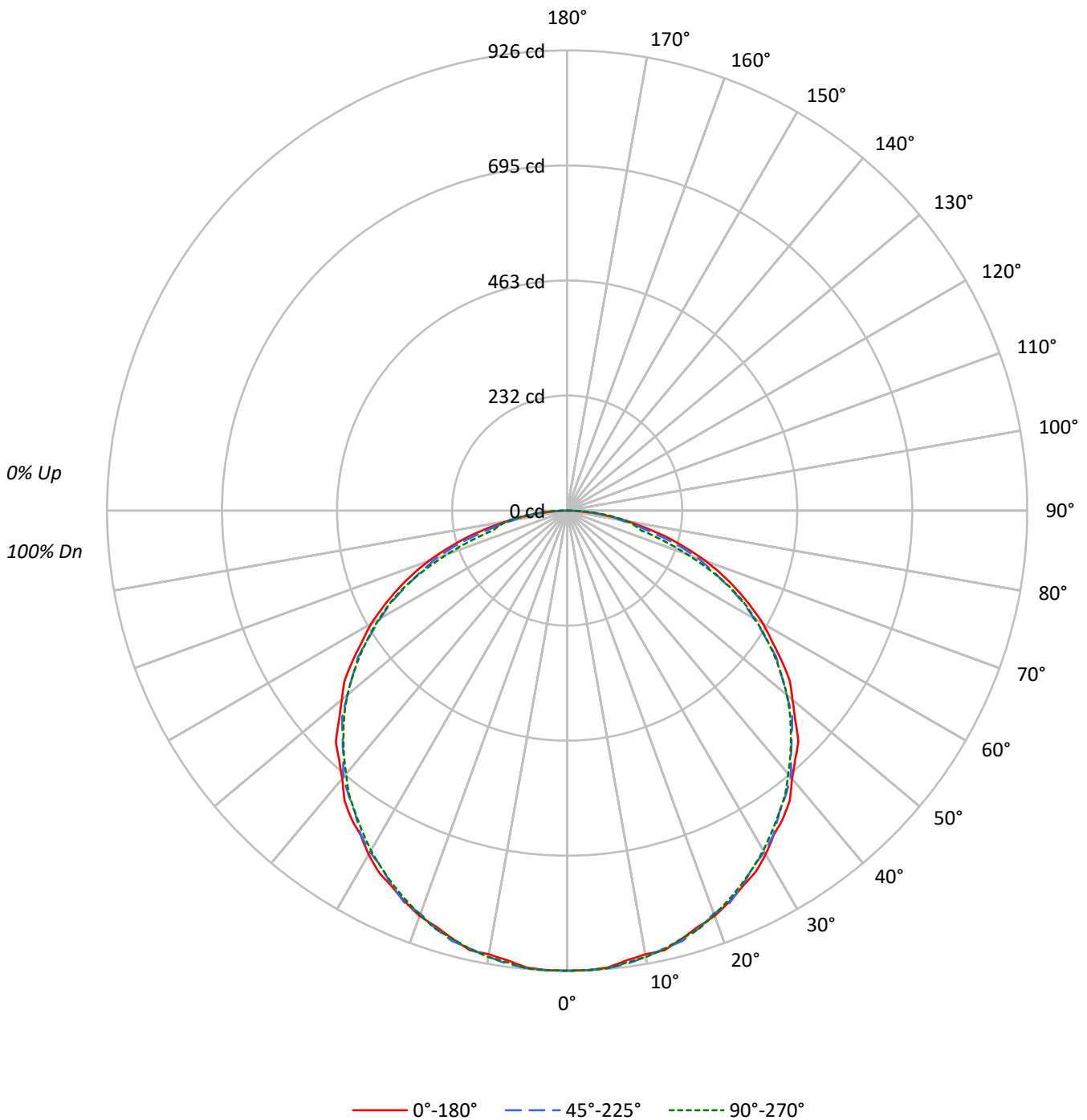
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4983	4983	4983
5°	4989	4993	4997
10°	4956	4981	4986
15°	4968	4995	4968
20°	4971	4944	4958
25°	4957	4947	4929
30°	4966	4931	4907
35°	4974	4886	4881
40°	4946	4919	4863
45°	5009	4864	4846
50°	4953	4827	4834
55°	4941	4815	4778
60°	4902	4672	4706
65°	4801	4518	4569
70°	4661	4400	4038
75°	4331	3903	3227
80°	3781	3363	3806
85°	3032	3619	3668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.2
10°-20°	252.1	9.1
20°-30°	383.9	13.9
30°-40°	468.2	16.9
40°-50°	495.5	17.9
50°-60°	459.0	16.6
60°-70°	357.6	12.9
70°-80°	200.6	7.2
80°-90°	61.9	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°	723.8	26.2
0°-40°	1192.0	43.1
0°-60°	2146.6	77.6
0°-90°	2766.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2766.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	923	924	924	926	925	87
15°	892	893	896	893	892	252
25°	835	833	833	828	830	386
35°	757	751	744	742	743	473
45°	658	650	639	638	637	504
55°	527	523	513	506	509	471
65°	377	370	355	357	359	373
75°	208	202	188	168	155	219
85°	49	51	59	59	59	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.8	925.8	925.8	925.8	925.8
2.5°	925.8	924.2	925.8	925.0	925.8
5°	923.4	924.2	924.2	925.8	925.0
7.5°	913.1	917.1	920.2	919.5	917.1
10°	906.8	910.7	911.5	910.0	912.3
12.5°	906.0	906.8	902.8	905.2	903.6
15°	891.7	893.3	896.5	893.3	891.7
17.5°	877.5	880.7	881.4	879.1	882.2
20°	868.0	870.4	863.2	866.4	865.6
22.5°	852.1	852.9	854.5	849.0	848.2
25°	834.7	833.1	833.1	827.6	830.0
27.5°	820.5	814.9	808.6	811.8	810.2
30°	799.1	798.3	793.5	790.4	789.6
32.5°	773.7	774.5	772.9	765.8	766.6
35°	757.1	750.8	743.6	742.1	742.9
37.5°	735.7	730.2	722.3	719.9	720.7
40°	704.0	703.3	700.1	690.6	692.2
42.5°	679.5	674.7	666.8	662.9	665.2
45°	658.1	650.2	639.1	637.5	636.7
47.5°	622.5	620.9	613.8	605.1	608.2
50°	591.6	588.4	576.5	571.8	577.3
52.5°	565.5	557.5	543.3	542.5	543.3
55°	526.6	522.7	513.2	506.1	509.2
57.5°	488.6	485.5	472.0	469.6	473.6
60°	455.4	449.8	434.0	433.2	437.2
62.5°	415.8	411.8	397.6	397.6	401.5
65°	377.0	369.8	354.8	357.2	358.8
67.5°	337.4	328.7	315.2	312.8	308.1
70°	296.2	287.5	279.6	264.5	256.6
72.5°	251.0	244.7	236.0	213.0	205.1
75°	208.3	201.9	187.7	167.9	155.2
77.5°	163.1	160.8	144.1	136.2	139.4
80°	122.0	121.2	108.5	118.8	122.8
82.5°	83.2	80.0	87.9	92.7	92.7
85°	49.1	50.7	58.6	59.4	59.4
87.5°	19.8	23.0	26.9	28.5	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)