

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: P392915

Luminaire Tested: **12EN-LD2-35-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392915
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 (3000K)
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: 2704.4 lumens
Efficiency: N/A
Efficacy: 89.3 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

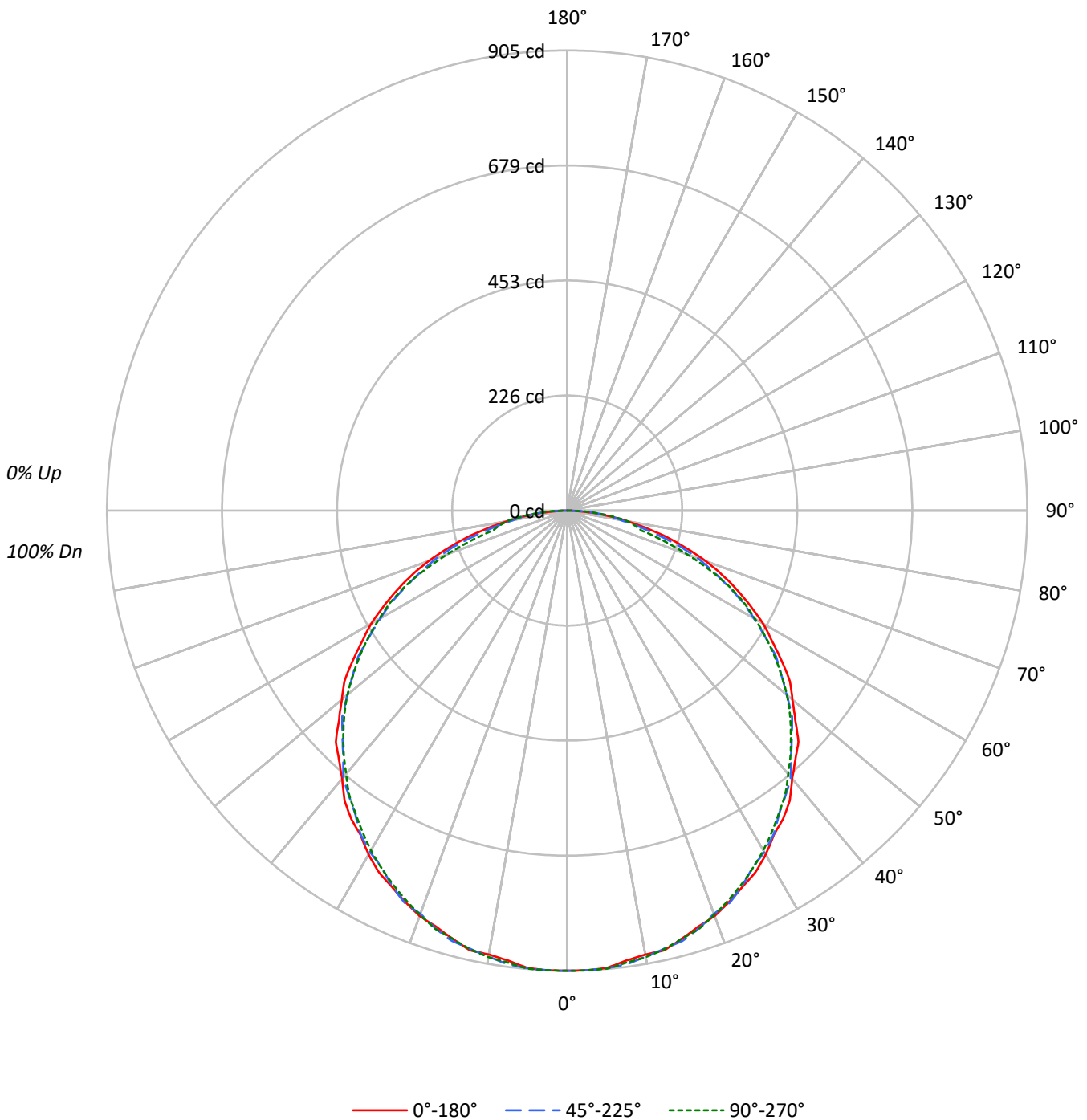
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P392915

CATALOG NUMBER: 12EN-LD2-35-UNV-L92765-W2A-1-U (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P392915

CATALOG NUMBER: 12EN-LD2-35-UNV-L92765-W2A-1-U (3000K)

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°	4871	4871	4871
5°	4877	4881	4885
10°	4844	4869	4874
15°	4857	4883	4857
20°	4860	4833	4846
25°	4846	4836	4818
30°	4854	4821	4796
35°	4863	4776	4771
40°	4835	4808	4754
45°	4896	4755	4737
50°	4842	4719	4726
55°	4830	4708	4671
60°	4791	4566	4599
65°	4693	4416	4466
70°	4556	4301	3947
75°	4234	3816	3154
80°	3694	3288	3719
85°	2964	3538	3588



TEST NUMBER: P392915

CATALOG NUMBER: 12EN-LD2-35-UNV-L92765-W2A-1-U (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.2
10°-20°	246.5	9.1
20°-30°	375.3	13.9
30°-40°	457.7	16.9
40°-50°	484.4	17.9
50°-60°	448.7	16.6
60°-70°	349.5	12.9
70°-80°	196.1	7.2
80°-90°	60.5	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°	707.5	26.2
0°-40°	1165.2	43.1
0°-60°	2098.3	77.6
0°-90°	2704.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2704.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	903	903	903	905	904	86
15°	872	873	876	873	872	246
25°	816	814	814	809	811	377
35°	740	734	727	725	726	462
45°	643	636	625	623	622	492
55°	515	511	502	495	498	460
65°	368	362	347	349	351	364
75°	204	197	184	164	152	214
85°	48	50	57	58	58	57
90°	0	0	0	0	0	



TEST NUMBER: P392915

CATALOG NUMBER: 12EN-LD2-35-UNV-L92765-W2A-1-U (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.0	905.0	905.0	905.0	905.0
2.5°	905.0	903.4	905.0	904.2	905.0
5°	902.7	903.4	903.4	905.0	904.2
7.5°	892.6	896.5	899.6	898.8	896.5
10°	886.4	890.3	891.0	889.5	891.8
12.5°	885.6	886.4	882.5	884.9	883.3
15°	871.7	873.2	876.3	873.2	871.7
17.5°	857.8	860.9	861.6	859.3	862.4
20°	848.5	850.8	843.8	846.9	846.1
22.5°	833.0	833.8	835.3	829.9	829.1
25°	816.0	814.4	814.4	809.0	811.3
27.5°	802.0	796.6	790.4	793.5	792.0
30°	781.1	780.3	775.7	772.6	771.8
32.5°	756.3	757.1	755.6	748.6	749.4
35°	740.1	733.9	726.9	725.4	726.2
37.5°	719.2	713.8	706.0	703.7	704.5
40°	688.2	687.4	684.4	675.1	676.6
42.5°	664.2	659.6	651.8	648.0	650.3
45°	643.3	635.6	624.7	623.2	622.4
47.5°	608.5	606.9	600.0	591.5	594.5
50°	578.3	575.2	563.6	558.9	564.4
52.5°	552.7	545.0	531.1	530.3	531.1
55°	514.8	510.9	501.7	494.7	497.8
57.5°	477.7	474.6	461.4	459.1	462.9
60°	445.1	439.7	424.2	423.5	427.3
62.5°	406.4	402.6	388.6	388.6	392.5
65°	368.5	361.5	346.8	349.1	350.7
67.5°	329.8	321.3	308.1	305.8	301.1
70°	289.5	281.0	273.3	258.6	250.8
72.5°	245.4	239.2	230.7	208.2	200.5
75°	203.6	197.4	183.5	164.1	151.7
77.5°	159.5	157.2	140.9	133.2	136.3
80°	119.2	118.4	106.1	116.1	120.0
82.5°	81.3	78.2	85.9	90.6	90.6
85°	48.0	49.5	57.3	58.1	58.1
87.5°	19.4	22.5	26.3	27.9	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)