

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: P392914

Luminaire Tested: **12EN-LD2-35-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392914
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 (2700K)
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: 2621.8 lumens
Efficiency: N/A
Efficacy: 86.5 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

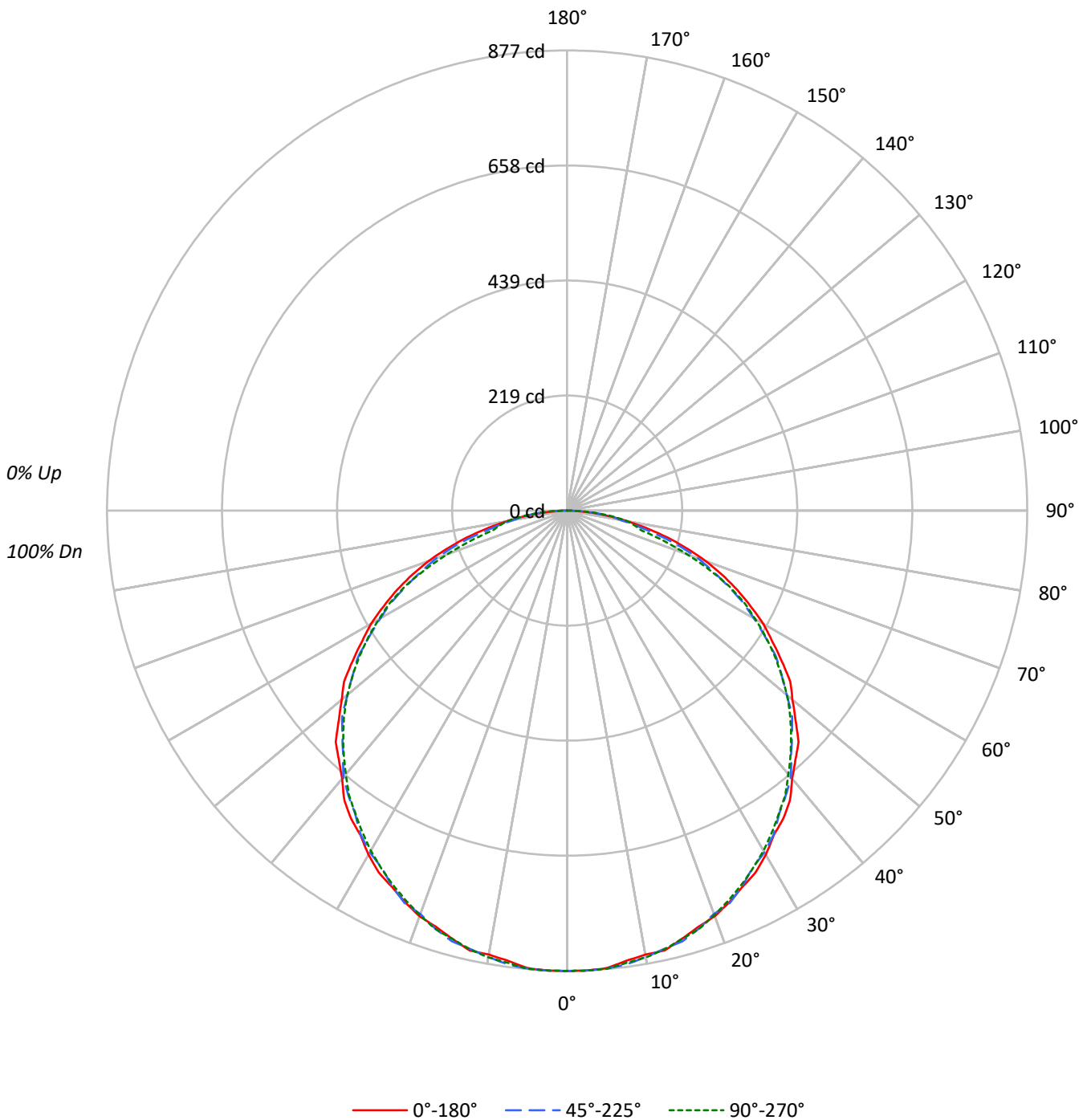
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4722	4722	4722
5°	4728	4732	4736
10°	4696	4721	4725
15°	4709	4734	4709
20°	4711	4685	4698
25°	4697	4688	4670
30°	4706	4673	4650
35°	4714	4630	4625
40°	4688	4661	4608
45°	4747	4610	4593
50°	4694	4575	4581
55°	4683	4563	4528
60°	4645	4427	4459
65°	4549	4281	4330
70°	4417	4168	3827
75°	4105	3699	3059
80°	3583	3186	3605
85°	2871	3427	3477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.2
10°-20°	239.0	9.1
20°-30°	363.8	13.9
30°-40°	443.7	16.9
40°-50°	469.6	17.9
50°-60°	435.0	16.6
60°-70°	338.8	12.9
70°-80°	190.1	7.3
80°-90°	58.6	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°	685.9	26.2
0°-40°	1129.6	43.1
0°-60°	2034.2	77.6
0°-90°	2621.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2621.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	875	876	876	877	877	83
15°	845	847	850	847	845	239
25°	791	790	790	784	786	365
35°	718	712	705	703	704	448
45°	624	616	606	604	603	477
55°	499	495	486	480	483	446
65°	357	350	336	338	340	353
75°	197	191	178	159	147	208
85°	46	48	56	56	56	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.3	877.3	877.3	877.3	877.3
2.5°	877.3	875.8	877.3	876.6	877.3
5°	875.1	875.8	875.8	877.3	876.6
7.5°	865.3	869.1	872.1	871.3	869.1
10°	859.3	863.1	863.8	862.3	864.6
12.5°	858.6	859.3	855.6	857.8	856.3
15°	845.1	846.6	849.6	846.6	845.1
17.5°	831.6	834.6	835.3	833.1	836.1
20°	822.6	824.8	818.0	821.1	820.3
22.5°	807.5	808.3	809.8	804.5	803.8
25°	791.0	789.5	789.5	784.3	786.5
27.5°	777.5	772.3	766.3	769.3	767.8
30°	757.3	756.5	752.0	749.0	748.3
32.5°	733.2	734.0	732.5	725.7	726.5
35°	717.5	711.5	704.7	703.2	704.0
37.5°	697.2	692.0	684.5	682.2	683.0
40°	667.2	666.4	663.4	654.4	655.9
42.5°	643.9	639.4	631.9	628.2	630.4
45°	623.7	616.2	605.7	604.2	603.4
47.5°	589.9	588.4	581.6	573.4	576.4
50°	560.6	557.6	546.4	541.9	547.1
52.5°	535.9	528.4	514.8	514.1	514.8
55°	499.1	495.3	486.3	479.6	482.6
57.5°	463.1	460.1	447.3	445.0	448.8
60°	431.5	426.3	411.3	410.5	414.3
62.5°	394.0	390.3	376.8	376.8	380.5
65°	357.2	350.5	336.2	338.5	340.0
67.5°	319.7	311.5	298.7	296.4	291.9
70°	280.7	272.4	264.9	250.7	243.2
72.5°	237.9	231.9	223.7	201.9	194.4
75°	197.4	191.4	177.9	159.1	147.1
77.5°	154.6	152.4	136.6	129.1	132.1
80°	115.6	114.8	102.8	112.6	116.3
82.5°	78.8	75.8	83.3	87.8	87.8
85°	46.5	48.0	55.5	56.3	56.3
87.5°	18.8	21.8	25.5	27.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)