

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: P392920

Luminaire Tested: **12EN-LD2-35-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392920  
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 (5700K)  
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: 2989.8 lumens  
Efficiency: N/A  
Efficacy: 98.3 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

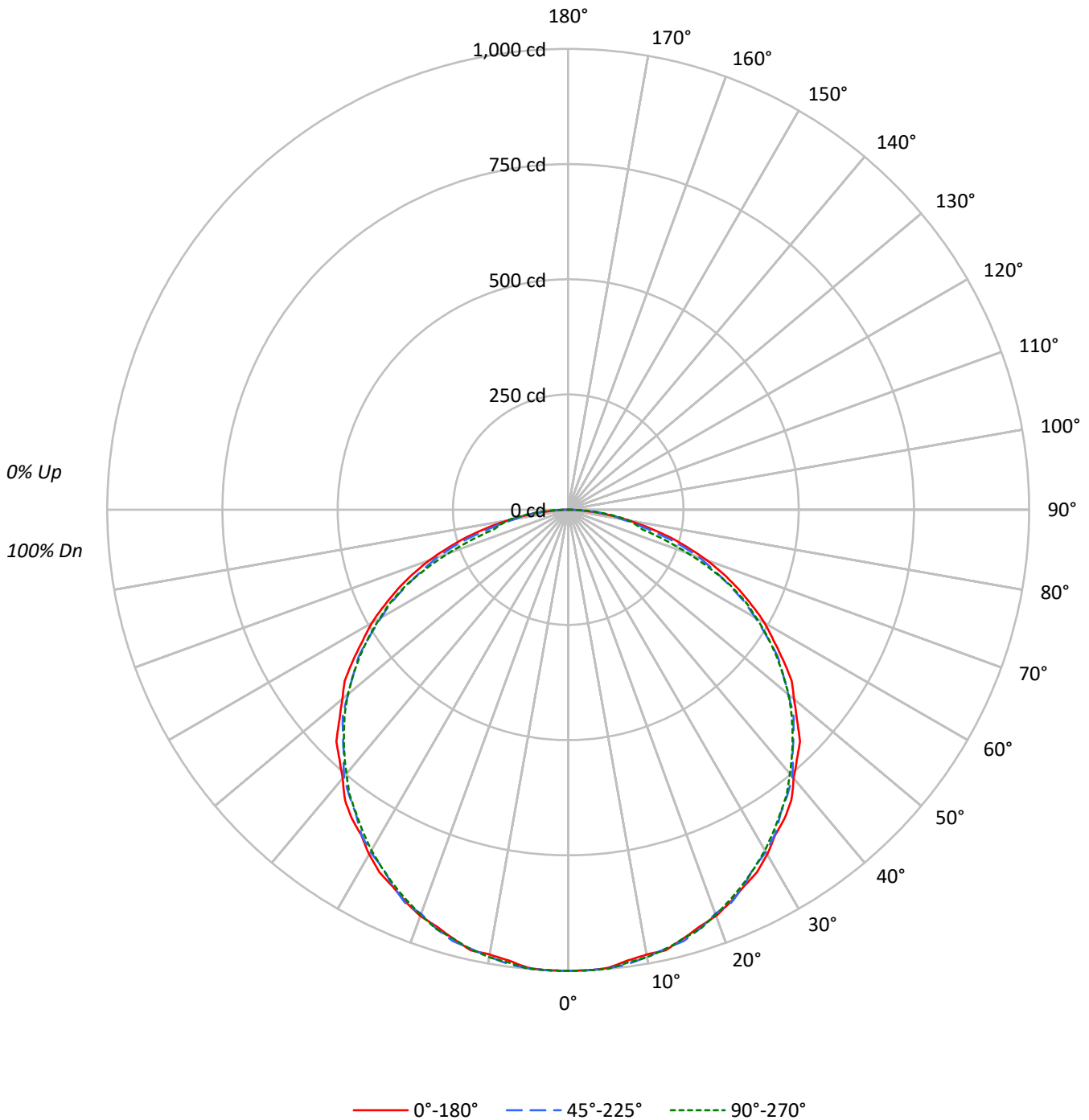
Input Watts (W): 30.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5385	5385	5385
5°	5391	5396	5401
10°	5356	5384	5388
15°	5370	5398	5370
20°	5372	5343	5358
25°	5357	5347	5326
30°	5367	5330	5303
35°	5376	5280	5275
40°	5346	5316	5255
45°	5413	5257	5237
50°	5353	5217	5224
55°	5341	5204	5164
60°	5297	5048	5085
65°	5188	4883	4937
70°	5037	4754	4364
75°	4681	4217	3489
80°	4085	3636	4113
85°	3279	3909	3964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	3.2
10°-20°	272.5	9.1
20°-30°	414.9	13.9
30°-40°	506.0	16.9
40°-50°	535.5	17.9
50°-60°	496.1	16.6
60°-70°	386.4	12.9
70°-80°	216.7	7.2
80°-90°	66.8	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°	782.2	26.2
0°-40°	1288.2	43.1
0°-60°	2319.8	77.6
0°-90°	2989.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	998	999	999	1000	1000	95
15°	964	965	969	965	964	272
25°	902	900	900	894	897	417
35°	818	811	804	802	803	511
45°	711	703	691	689	688	544
55°	569	565	555	547	550	509
65°	407	400	383	386	388	403
75°	225	218	203	181	168	237
85°	53	55	63	64	64	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1000.5	1000.5	1000.5	1000.5	1000.5
2.5°	1000.5	998.8	1000.5	999.7	1000.5
5°	997.9	998.8	998.8	1000.5	999.7
7.5°	986.8	991.1	994.5	993.7	991.1
10°	980.0	984.2	985.1	983.4	986.0
12.5°	979.1	980.0	975.7	978.3	976.5
15°	963.7	965.4	968.8	965.4	963.7
17.5°	948.3	951.7	952.6	950.0	953.4
20°	938.0	940.6	932.9	936.3	935.5
22.5°	920.9	921.8	923.5	917.5	916.6
25°	902.1	900.4	900.4	894.4	896.9
27.5°	886.7	880.7	873.8	877.3	875.6
30°	863.6	862.7	857.6	854.2	853.3
32.5°	836.2	837.0	835.3	827.6	828.5
35°	818.2	811.4	803.7	801.9	802.8
37.5°	795.1	789.1	780.6	778.0	778.8
40°	760.9	760.0	756.6	746.3	748.0
42.5°	734.3	729.2	720.6	716.4	718.9
45°	711.2	702.7	690.7	689.0	688.1
47.5°	672.7	671.0	663.3	653.9	657.3
50°	639.3	635.9	623.1	617.9	623.9
52.5°	611.1	602.5	587.1	586.3	587.1
55°	569.2	564.9	554.6	546.9	550.3
57.5°	528.1	524.6	510.1	507.5	511.8
60°	492.1	486.1	469.0	468.2	472.4
62.5°	449.3	445.1	429.6	429.6	433.9
65°	407.4	399.7	383.4	386.0	387.7
67.5°	364.6	355.2	340.6	338.1	332.9
70°	320.1	310.7	302.1	285.9	277.3
72.5°	271.3	264.5	255.0	230.2	221.7
75°	225.1	218.2	202.8	181.4	167.8
77.5°	176.3	173.7	155.8	147.2	150.6
80°	131.8	130.9	117.3	128.4	132.7
82.5°	89.9	86.4	95.0	100.1	100.1
85°	53.1	54.8	63.3	64.2	64.2
87.5°	21.4	24.8	29.1	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)