

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: P392899

Luminaire Tested: **12EN-LD2-35-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392899  
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 (3000K)  
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: 3204.1 lumens  
Efficiency: N/A  
Efficacy: 104.7 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

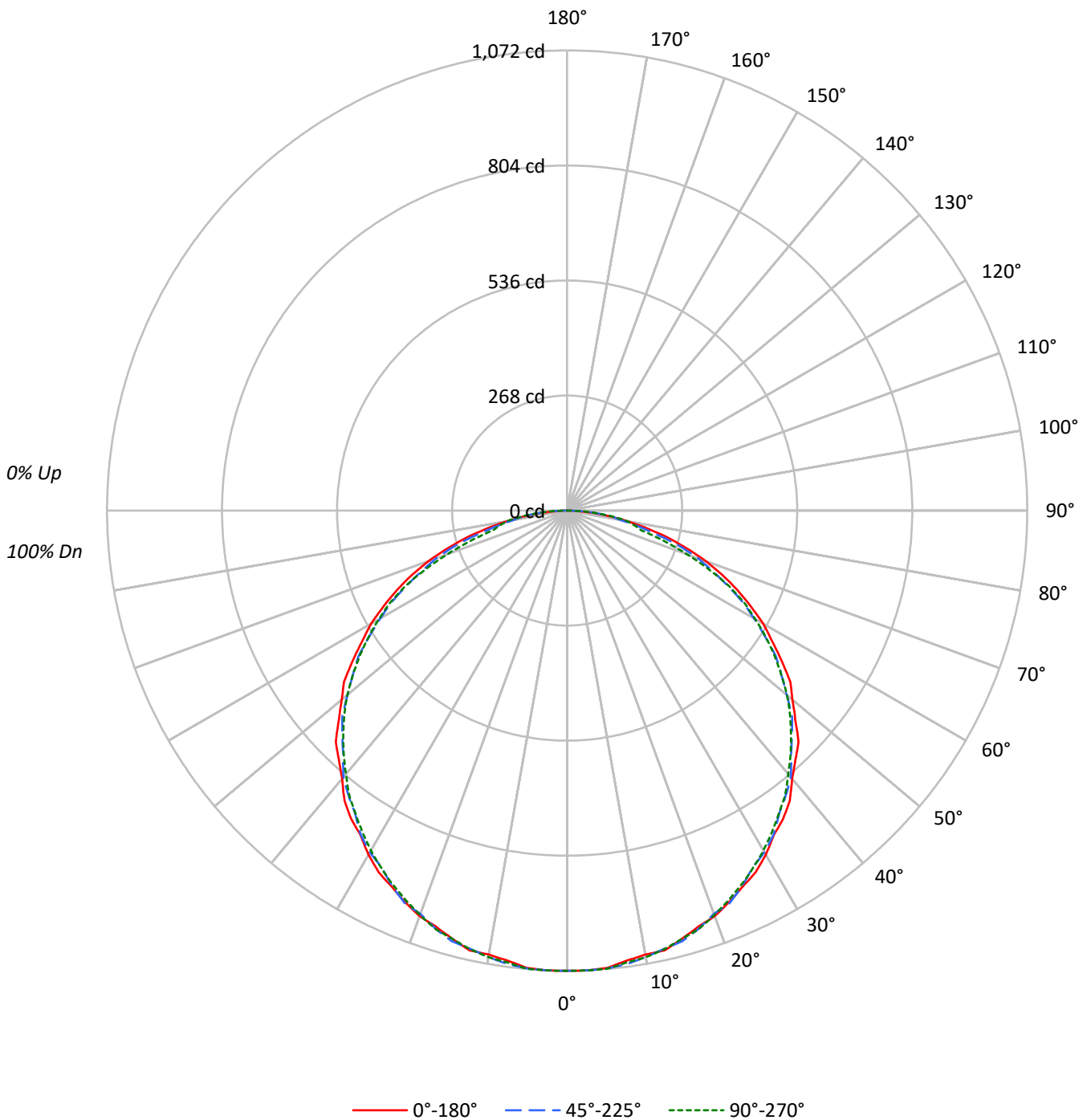
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5771	5771	5771
5°	5778	5783	5788
10°	5739	5769	5774
15°	5755	5785	5755
20°	5758	5726	5742
25°	5741	5730	5708
30°	5752	5712	5683
35°	5761	5659	5652
40°	5729	5696	5632
45°	5801	5634	5613
50°	5737	5591	5599
55°	5723	5577	5534
60°	5677	5410	5450
65°	5560	5233	5291
70°	5397	5095	4677
75°	5016	4521	3739
80°	4379	3896	4407
85°	3514	4193	4248



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	3.2
10°-20°	292.0	9.1
20°-30°	444.6	13.9
30°-40°	542.3	16.9
40°-50°	573.9	17.9
50°-60°	531.6	16.6
60°-70°	414.1	12.9
70°-80°	232.3	7.2
80°-90°	71.6	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°	838.3	26.2
0°-40°	1380.5	43.1
0°-60°	2486.1	77.6
0°-90°	3204.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3204.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1070	1070	1070	1072	1071	101
15°	1033	1035	1038	1035	1033	292
25°	967	965	965	958	961	447
35°	877	870	861	859	860	548
45°	762	753	740	738	737	583
55°	610	605	594	586	590	545
65°	437	428	411	414	416	432
75°	241	234	217	194	180	254
85°	57	59	68	69	69	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1072.2	1072.2	1072.2	1072.2	1072.2
2.5°	1072.2	1070.4	1072.2	1071.3	1072.2
5°	1069.5	1070.4	1070.4	1072.2	1071.3
7.5°	1057.6	1062.1	1065.8	1064.9	1062.1
10°	1050.2	1054.8	1055.7	1053.9	1056.6
12.5°	1049.3	1050.2	1045.6	1048.4	1046.5
15°	1032.8	1034.6	1038.3	1034.6	1032.8
17.5°	1016.3	1019.9	1020.9	1018.1	1021.8
20°	1005.3	1008.0	999.8	1003.4	1002.5
22.5°	986.9	987.8	989.7	983.3	982.3
25°	966.7	964.9	964.9	958.5	961.2
27.5°	950.2	943.8	936.5	940.1	938.3
30°	925.5	924.6	919.1	915.4	914.5
32.5°	896.1	897.0	895.2	886.9	887.9
35°	876.9	869.5	861.3	859.4	860.3
37.5°	852.1	845.7	836.5	833.8	834.7
40°	815.4	814.5	810.8	799.8	801.6
42.5°	787.0	781.5	772.3	767.7	770.5
45°	762.2	753.0	740.2	738.4	737.4
47.5°	720.9	719.1	710.8	700.8	704.4
50°	685.2	681.5	667.7	662.2	668.7
52.5°	654.9	645.7	629.2	628.3	629.2
55°	609.9	605.4	594.4	586.1	589.8
57.5°	565.9	562.3	546.7	543.9	548.5
60°	527.4	521.0	502.6	501.7	506.3
62.5°	481.5	477.0	460.4	460.4	465.0
65°	436.6	428.3	410.9	413.7	415.5
67.5°	390.7	380.6	365.1	362.3	356.8
70°	343.0	332.9	323.8	306.4	297.2
72.5°	290.8	283.4	273.3	246.7	237.6
75°	241.2	233.9	217.4	194.5	179.8
77.5°	188.9	186.2	166.9	157.8	161.4
80°	141.3	140.3	125.7	137.6	142.2
82.5°	96.3	92.6	101.8	107.3	107.3
85°	56.9	58.7	67.9	68.8	68.8
87.5°	22.9	26.6	31.2	33.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)