

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: P295802

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-5700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2851.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

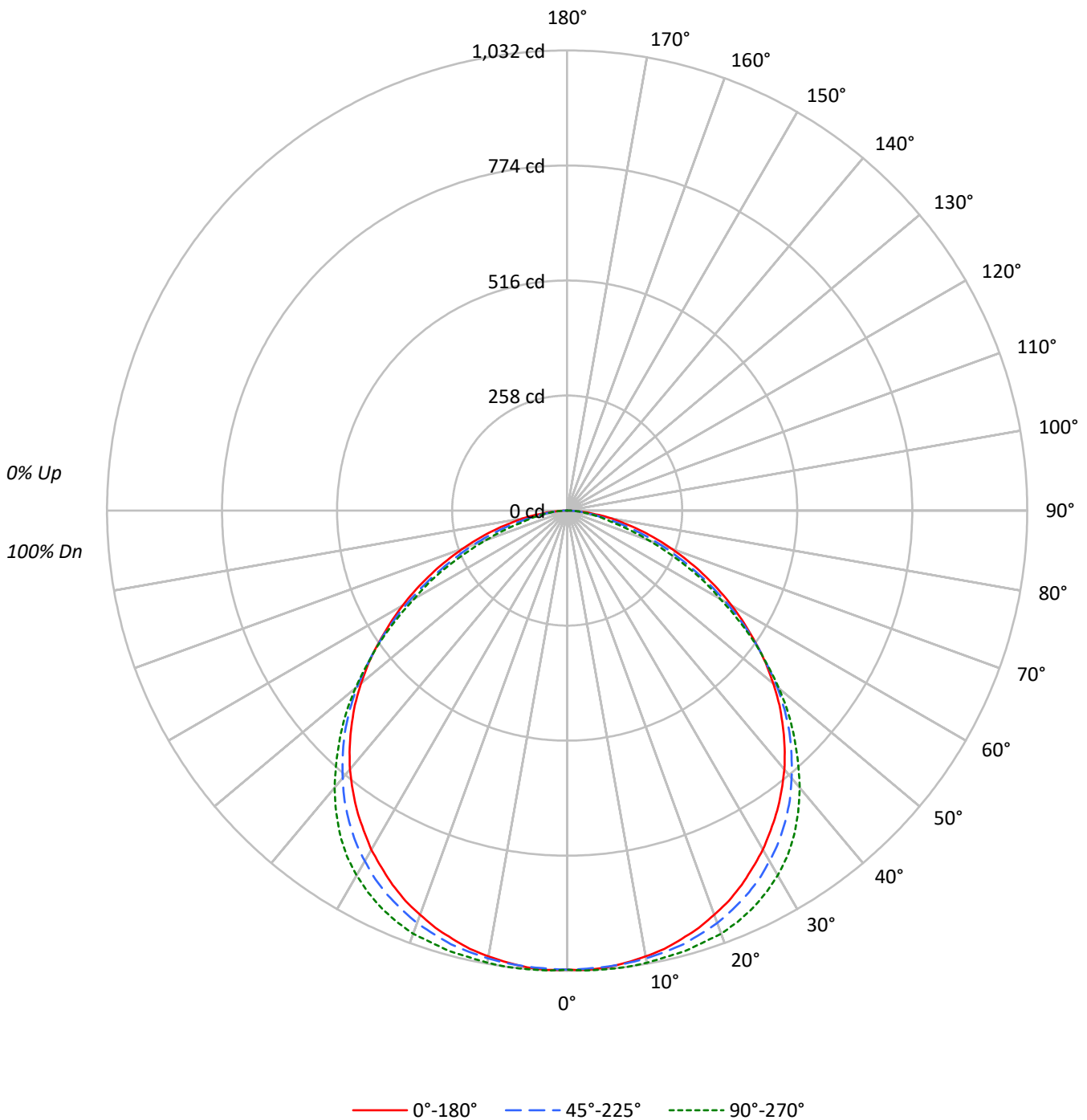
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2771	2771	2771
5°	2777	2774	2789
10°	2775	2786	2813
15°	2770	2805	2849
20°	2762	2819	2892
25°	2750	2826	2923
30°	2728	2821	2935
35°	2698	2801	2917
40°	2662	2751	2851
45°	2603	2684	2743
50°	2526	2573	2597
55°	2419	2412	2399
60°	2294	2218	2134
65°	2137	1984	1876
70°	1950	1738	1515
75°	1752	1443	1133
80°	1559	1054	987
85°	1226	874	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	3.4
10°-20°	284.8	10.0
20°-30°	439.6	15.4
30°-40°	533.2	18.7
40°-50°	541.3	19.0
50°-60°	457.9	16.1
60°-70°	309.8	10.9
70°-80°	149.8	5.3
80°-90°	36.6	1.3
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°	822.4	28.8
0°-40°	1355.6	47.5
0°-60°	2354.8	82.6
0°-90°	2851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2851.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1028	1028	1027	1031	1032	98
15°	994	1000	1007	1018	1022	281
25°	926	933	952	976	984	427
35°	821	830	853	880	888	514
45°	684	686	705	719	721	527
55°	516	511	514	514	511	461
65°	336	322	312	299	295	333
75°	168	156	139	120	109	180
85°	40	31	28	28	28	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1029.6	1029.6	1029.6	1029.6	1029.6
2.5°	1031.0	1031.0	1028.2	1031.0	1032.4
5°	1028.2	1028.2	1026.8	1031.0	1032.4
7.5°	1022.5	1023.9	1023.9	1029.6	1032.4
10°	1015.4	1018.3	1019.7	1028.2	1029.6
12.5°	1006.9	1009.8	1014.0	1023.9	1025.4
15°	994.2	999.9	1006.9	1018.3	1022.5
17.5°	981.4	987.1	995.6	1011.2	1015.4
20°	964.5	971.5	984.3	1002.7	1009.8
22.5°	947.5	953.1	968.7	991.4	998.4
25°	926.2	933.3	951.7	975.8	984.3
27.5°	902.1	912.1	931.9	957.4	965.9
30°	878.1	886.6	907.8	936.1	944.6
32.5°	849.7	858.2	882.3	909.2	919.1
35°	821.4	829.9	852.6	879.5	888.0
37.5°	790.3	795.9	820.0	842.7	851.2
40°	757.7	761.9	783.2	805.8	811.5
42.5°	722.3	725.1	744.9	764.8	766.2
45°	684.0	685.5	705.3	719.4	720.9
47.5°	645.8	644.4	661.4	671.3	672.7
50°	603.3	603.3	614.6	620.3	620.3
52.5°	560.8	558.0	563.7	567.9	563.7
55°	515.5	511.3	514.1	514.1	511.3
57.5°	470.2	461.7	463.1	460.3	453.2
60°	426.3	416.4	412.1	402.2	396.5
62.5°	381.0	369.6	361.1	349.8	348.4
65°	335.6	321.5	311.6	298.8	294.6
67.5°	291.7	279.0	264.8	250.7	242.2
70°	247.8	233.7	220.9	202.5	192.6
72.5°	208.2	195.4	179.9	158.6	151.5
75°	168.5	155.8	138.8	120.4	109.0
77.5°	130.3	120.4	102.0	86.4	85.0
80°	100.6	89.2	68.0	63.7	63.7
82.5°	65.1	58.1	48.2	45.3	45.3
85°	39.7	31.2	28.3	28.3	28.3
87.5°	15.6	14.2	14.2	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)