

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: P295800

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295800  
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-5000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2796.0 lumens  
Efficiency: N/A  
Efficacy: 81.5 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

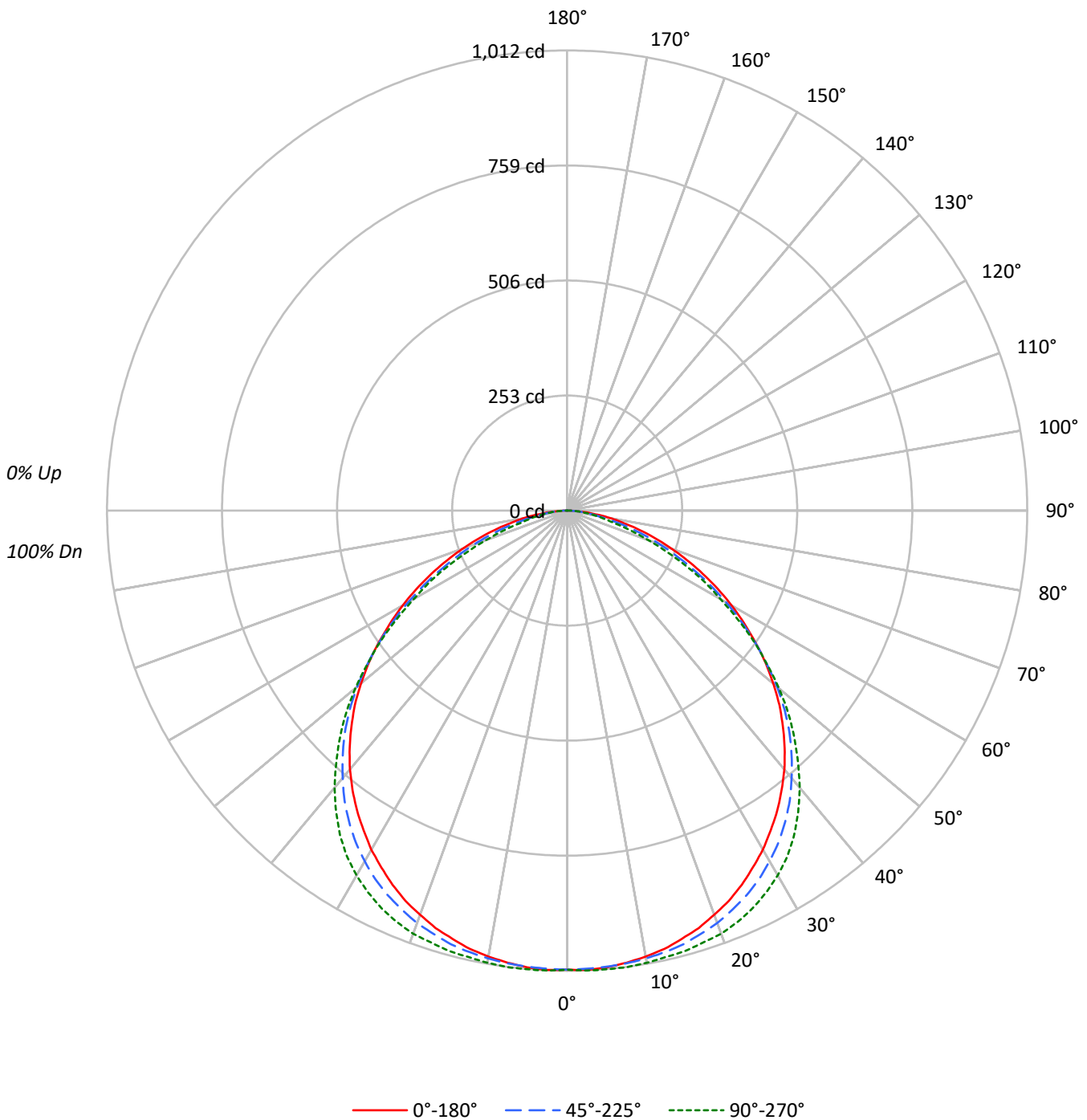
Input Watts (W): 34.317  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2717	2717	2717
5°	2724	2720	2735
10°	2721	2732	2759
15°	2716	2751	2794
20°	2708	2764	2836
25°	2697	2771	2866
30°	2676	2766	2879
35°	2646	2747	2861
40°	2610	2698	2796
45°	2553	2632	2691
50°	2477	2524	2547
55°	2372	2365	2352
60°	2250	2175	2093
65°	2096	1946	1840
70°	1913	1705	1486
75°	1719	1415	1111
80°	1528	1034	969
85°	1201	858	858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.1	3.4
10°-20°	279.3	10.0
20°-30°	431.1	15.4
30°-40°	522.9	18.7
40°-50°	530.9	19.0
50°-60°	449.1	16.1
60°-70°	303.9	10.9
70°-80°	146.9	5.3
80°-90°	35.8	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°	806.6	28.8
0°-40°	1329.4	47.5
0°-60°	2309.4	82.6
0°-90°	2796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2796.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1008	1008	1007	1011	1012	96
15°	975	981	988	999	1003	275
25°	908	915	933	957	965	418
35°	806	814	836	862	871	504
45°	671	672	692	706	707	517
55°	506	501	504	504	501	452
65°	329	315	306	293	289	326
75°	165	153	136	118	107	176
85°	39	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°	1009.7	1009.7	1009.7	1009.7	1009.7
2.5°	1011.1	1011.1	1008.3	1011.1	1012.5
5°	1008.3	1008.3	1007.0	1011.1	1012.5
7.5°	1002.8	1004.2	1004.2	1009.7	1012.5
10°	995.8	998.6	1000.0	1008.3	1009.7
12.5°	987.5	990.3	994.5	1004.2	1005.6
15°	975.0	980.6	987.5	998.6	1002.8
17.5°	962.5	968.1	976.4	991.7	995.8
20°	945.8	952.8	965.3	983.3	990.3
22.5°	929.2	934.7	950.0	972.2	979.2
25°	908.3	915.3	933.3	957.0	965.3
27.5°	884.7	894.5	913.9	938.9	947.2
30°	861.1	869.5	890.3	918.1	926.4
32.5°	833.3	841.7	865.3	891.7	901.4
35°	805.6	813.9	836.1	862.5	870.8
37.5°	775.0	780.6	804.2	826.4	834.7
40°	743.1	747.2	768.1	790.3	795.8
42.5°	708.3	711.1	730.6	750.0	751.4
45°	670.8	672.2	691.7	705.6	707.0
47.5°	633.3	632.0	648.6	658.3	659.7
50°	591.7	591.7	602.8	608.3	608.3
52.5°	550.0	547.2	552.8	557.0	552.8
55°	505.6	501.4	504.2	504.2	501.4
57.5°	461.1	452.8	454.2	451.4	444.5
60°	418.1	408.3	404.2	394.5	388.9
62.5°	373.6	362.5	354.2	343.1	341.7
65°	329.2	315.3	305.6	293.1	288.9
67.5°	286.1	273.6	259.7	245.8	237.5
70°	243.1	229.2	216.7	198.6	188.9
72.5°	204.2	191.7	176.4	155.6	148.6
75°	165.3	152.8	136.1	118.1	106.9
77.5°	127.8	118.1	100.0	84.7	83.3
80°	98.6	87.5	66.7	62.5	62.5
82.5°	63.9	56.9	47.2	44.4	44.4
85°	38.9	30.6	27.8	27.8	27.8
87.5°	15.3	13.9	13.9	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)