

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: P295733

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295733  
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-L82765-W2A1-U-6500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3161.0 lumens  
Efficiency: N/A  
Efficacy: 90.2 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

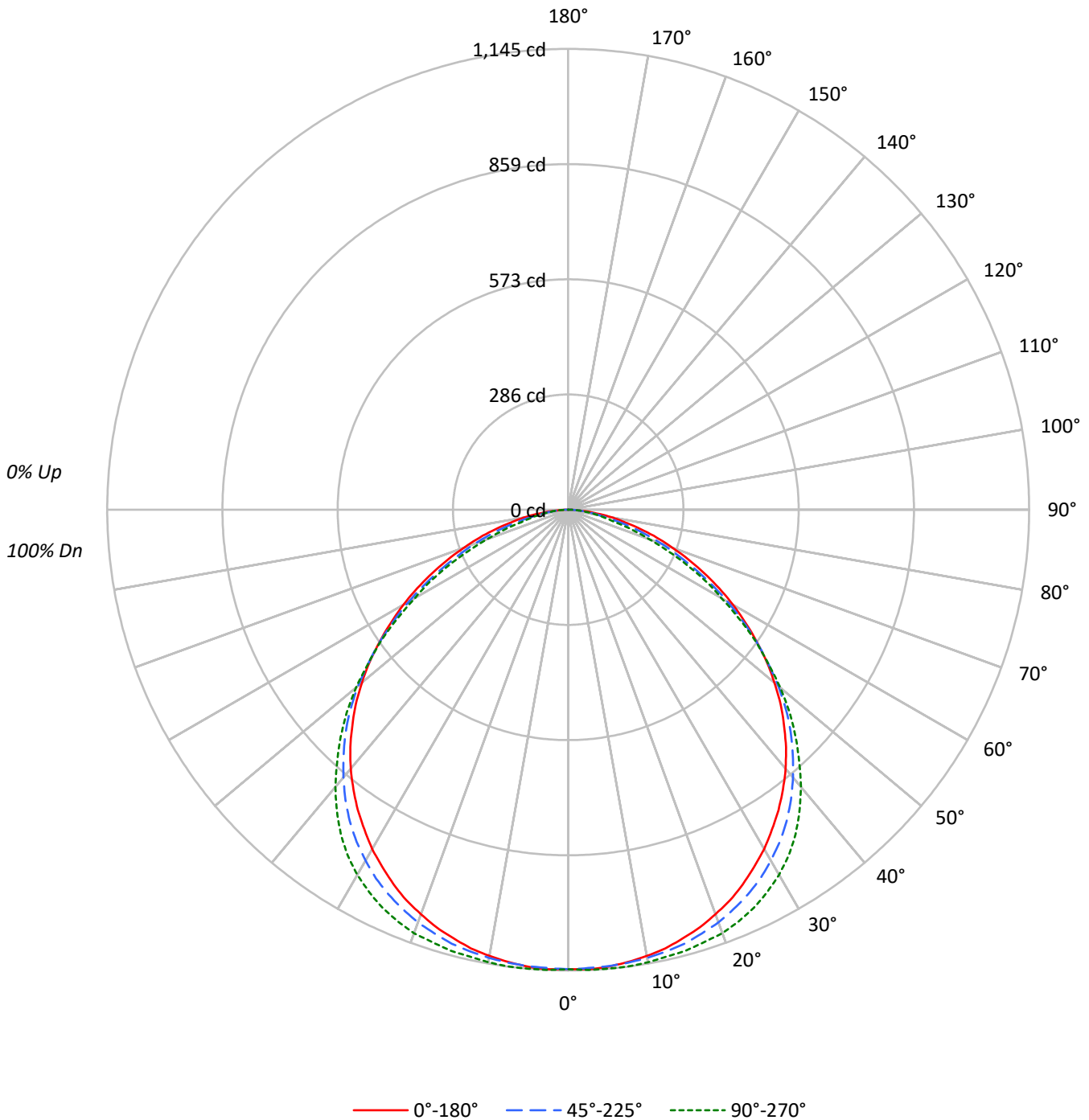
Input Watts (W): 35.061  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3072	3072	3072
5°	3079	3075	3092
10°	3077	3089	3119
15°	3071	3110	3158
20°	3062	3125	3206
25°	3049	3133	3240
30°	3025	3127	3254
35°	2992	3105	3234
40°	2951	3050	3160
45°	2886	2976	3041
50°	2800	2853	2879
55°	2682	2674	2660
60°	2544	2459	2366
65°	2369	2199	2080
70°	2162	1928	1681
75°	1943	1600	1257
80°	1728	1168	1096
85°	1359	969	969



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.7	3.4
10°-20°	315.8	10.0
20°-30°	487.4	15.4
30°-40°	591.1	18.7
40°-50°	600.2	19.0
50°-60°	507.7	16.1
60°-70°	343.5	10.9
70°-80°	166.1	5.3
80°-90°	40.5	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°	911.9	28.8
0°-40°	1503.0	47.5
0°-60°	2610.9	82.6
0°-90°	3161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3161.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1140	1140	1138	1143	1145	108
15°	1102	1109	1116	1129	1134	311
25°	1027	1035	1055	1082	1091	473
35°	911	920	945	975	984	569
45°	758	760	782	798	799	585
55°	572	567	570	570	567	511
65°	372	356	345	331	327	369
75°	187	173	154	134	121	199
85°	44	34	31	31	31	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1141.6	1141.6	1141.6	1141.6	1141.6
2.5°	1143.1	1143.1	1140.0	1143.1	1144.7
5°	1140.0	1140.0	1138.4	1143.1	1144.7
7.5°	1133.7	1135.3	1135.3	1141.6	1144.7
10°	1125.9	1129.0	1130.6	1140.0	1141.6
12.5°	1116.4	1119.6	1124.3	1135.3	1136.8
15°	1102.3	1108.6	1116.4	1129.0	1133.7
17.5°	1088.2	1094.4	1103.9	1121.1	1125.9
20°	1069.3	1077.2	1091.3	1111.7	1119.6
22.5°	1050.5	1056.8	1074.0	1099.2	1107.0
25°	1026.9	1034.8	1055.2	1081.9	1091.3
27.5°	1000.2	1011.2	1033.2	1061.5	1070.9
30°	973.5	983.0	1006.5	1037.9	1047.3
32.5°	942.1	951.6	978.2	1008.1	1019.1
35°	910.7	920.2	945.3	975.1	984.5
37.5°	876.2	882.5	909.2	934.3	943.7
40°	840.1	844.8	868.3	893.5	899.7
42.5°	800.8	804.0	825.9	847.9	849.5
45°	758.4	760.0	782.0	797.7	799.2
47.5°	716.0	714.5	733.3	744.3	745.9
50°	668.9	668.9	681.5	687.8	687.8
52.5°	621.8	618.7	624.9	629.7	624.9
55°	571.6	566.9	570.0	570.0	566.9
57.5°	521.3	511.9	513.5	510.3	502.5
60°	472.6	461.6	456.9	445.9	439.7
62.5°	422.4	409.8	400.4	387.8	386.3
65°	372.1	356.4	345.4	331.3	326.6
67.5°	323.5	309.3	293.6	277.9	268.5
70°	274.8	259.1	245.0	224.5	213.6
72.5°	230.8	216.7	199.4	175.9	168.0
75°	186.9	172.7	153.9	133.5	120.9
77.5°	144.5	133.5	113.1	95.8	94.2
80°	111.5	98.9	75.4	70.7	70.7
82.5°	72.2	64.4	53.4	50.2	50.2
85°	44.0	34.5	31.4	31.4	31.4
87.5°	17.3	15.7	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)