

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: P295810

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295810  
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-LD5-40-RDP-UNV-L92765-W2A1-U-5500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3230.0 lumens  
Efficiency: N/A  
Efficacy: 79.7 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

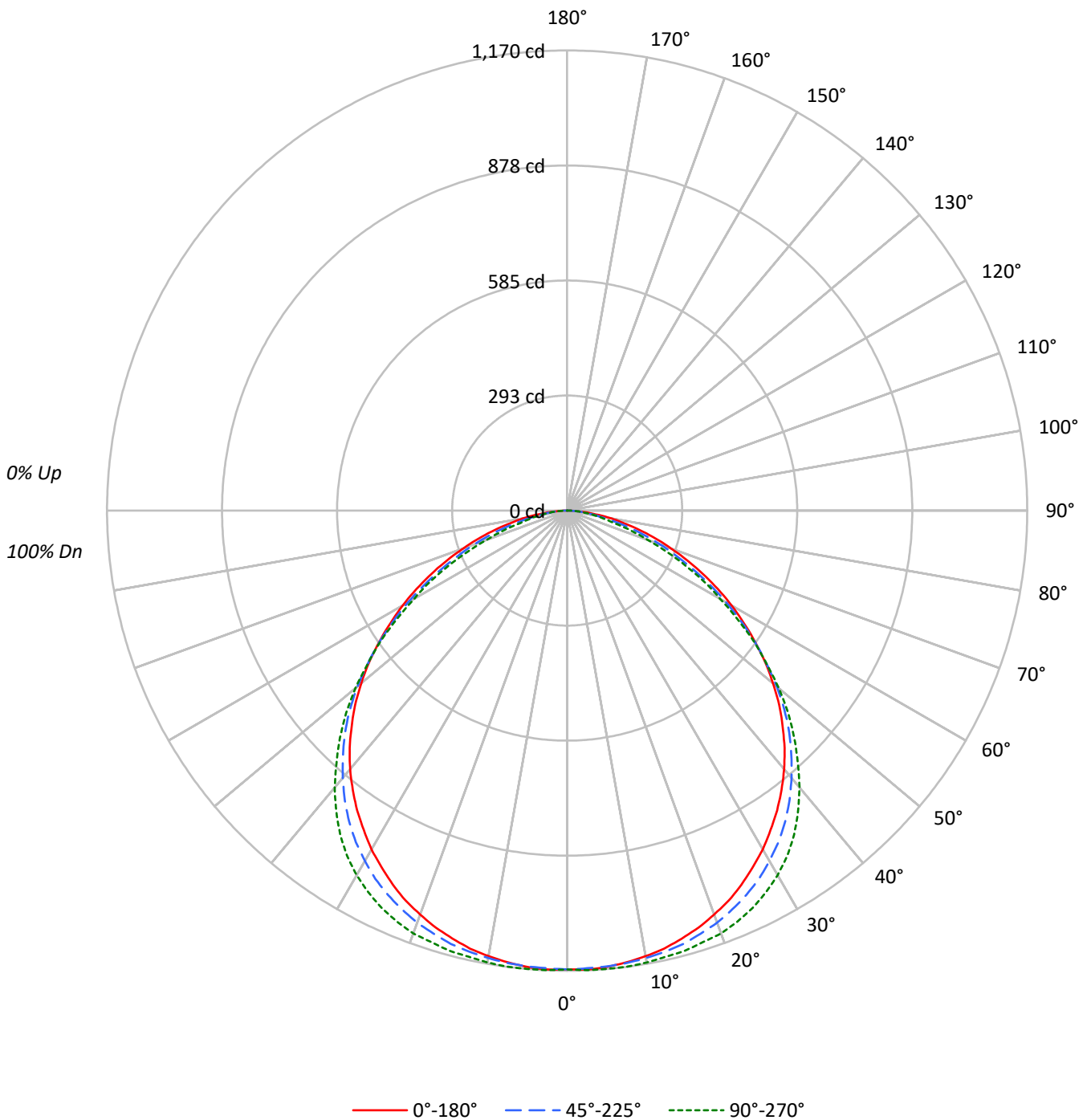
Input Watts (W): 40.548  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3139	3139	3139
5°	3147	3142	3160
10°	3143	3157	3187
15°	3138	3178	3227
20°	3129	3193	3276
25°	3116	3201	3311
30°	3091	3196	3325
35°	3057	3173	3305
40°	3015	3117	3230
45°	2949	3041	3108
50°	2861	2915	2942
55°	2740	2732	2717
60°	2599	2513	2418
65°	2422	2248	2125
70°	2209	1969	1717
75°	1985	1634	1284
80°	1765	1193	1119
85°	1386	991	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.0	3.4
10°-20°	322.7	10.0
20°-30°	498.0	15.4
30°-40°	604.0	18.7
40°-50°	613.3	19.0
50°-60°	518.8	16.1
60°-70°	351.0	10.9
70°-80°	169.7	5.3
80°-90°	41.4	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°	931.8	28.8
0°-40°	1535.8	47.5
0°-60°	2667.9	82.6
0°-90°	3230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3230.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1165	1165	1163	1168	1170	111
15°	1126	1133	1141	1154	1158	318
25°	1049	1057	1078	1106	1115	483
35°	931	940	966	996	1006	582
45°	775	777	799	815	817	598
55°	584	579	582	582	579	522
65°	380	364	353	338	334	377
75°	191	176	157	136	124	203
85°	45	35	32	32	32	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1166.5	1166.5	1166.5	1166.5	1166.5
2.5°	1168.1	1168.1	1164.9	1168.1	1169.7
5°	1164.9	1164.9	1163.3	1168.1	1169.7
7.5°	1158.4	1160.1	1160.1	1166.5	1169.7
10°	1150.4	1153.6	1155.2	1164.9	1166.5
12.5°	1140.8	1144.0	1148.8	1160.1	1161.7
15°	1126.4	1132.8	1140.8	1153.6	1158.4
17.5°	1111.9	1118.3	1128.0	1145.6	1150.4
20°	1092.7	1100.7	1115.1	1136.0	1144.0
22.5°	1073.4	1079.8	1097.5	1123.1	1131.2
25°	1049.3	1057.4	1078.2	1105.5	1115.1
27.5°	1022.1	1033.3	1055.8	1084.6	1094.3
30°	994.8	1004.4	1028.5	1060.6	1070.2
32.5°	962.7	972.3	999.6	1030.1	1041.3
35°	930.6	940.2	965.9	996.4	1006.0
37.5°	895.3	901.7	929.0	954.7	964.3
40°	858.4	863.2	887.3	913.0	919.4
42.5°	818.3	821.5	844.0	866.4	868.0
45°	775.0	776.6	799.0	815.1	816.7
47.5°	731.7	730.0	749.3	760.5	762.1
50°	683.5	683.5	696.4	702.8	702.8
52.5°	635.4	632.2	638.6	643.4	638.6
55°	584.0	579.2	582.4	582.4	579.2
57.5°	532.7	523.1	524.7	521.5	513.4
60°	483.0	471.7	466.9	455.7	449.3
62.5°	431.6	418.8	409.1	396.3	394.7
65°	380.3	364.2	353.0	338.5	333.7
67.5°	330.5	316.1	300.0	284.0	274.4
70°	280.8	264.7	250.3	229.4	218.2
72.5°	235.9	221.4	203.8	179.7	171.7
75°	190.9	176.5	157.2	136.4	123.5
77.5°	147.6	136.4	115.5	97.9	96.3
80°	113.9	101.1	77.0	72.2	72.2
82.5°	73.8	65.8	54.6	51.3	51.3
85°	44.9	35.3	32.1	32.1	32.1
87.5°	17.6	16.0	16.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)