

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: P295737

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295737  
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-L82765-W2A1-U-4000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3435.0 lumens  
Efficiency: N/A  
Efficacy: 86.1 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

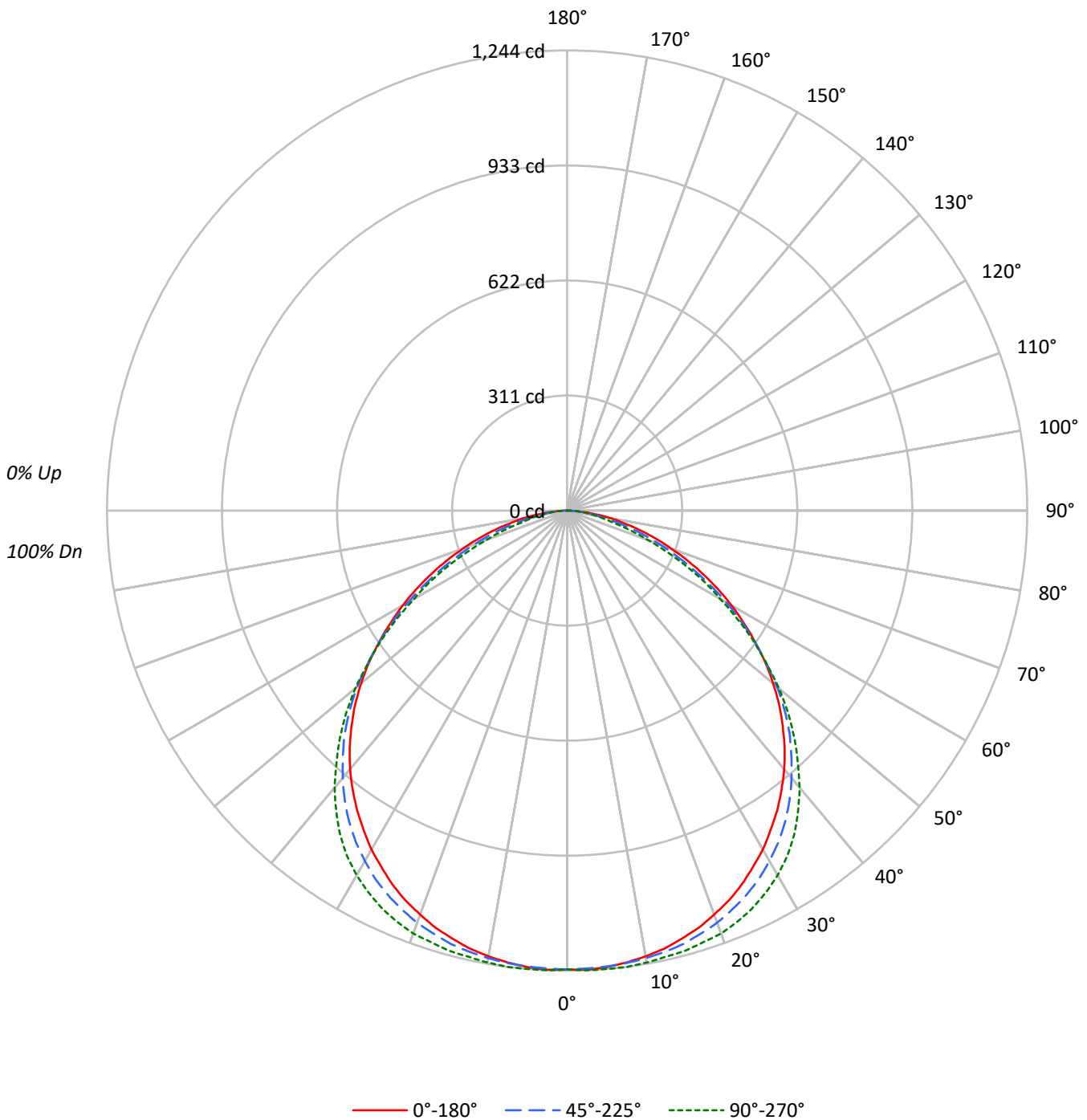
Input Watts (W): 39.897  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3338	3338	3338
5°	3346	3342	3360
10°	3343	3357	3390
15°	3337	3380	3432
20°	3328	3396	3484
25°	3313	3405	3521
30°	3287	3399	3536
35°	3251	3374	3515
40°	3207	3315	3434
45°	3137	3234	3305
50°	3043	3100	3129
55°	2914	2906	2890
60°	2764	2672	2571
65°	2575	2390	2260
70°	2349	2094	1826
75°	2112	1738	1366
80°	1877	1269	1190
85°	1476	1053	1053



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.1	3.4
10°-20°	343.2	10.0
20°-30°	529.7	15.4
30°-40°	642.4	18.7
40°-50°	652.2	19.0
50°-60°	551.7	16.1
60°-70°	373.3	10.9
70°-80°	180.5	5.3
80°-90°	44.0	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°	990.9	28.8
0°-40°	1633.3	47.5
0°-60°	2837.2	82.6
0°-90°	3435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3435.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1239	1239	1237	1242	1244	118
15°	1198	1205	1213	1227	1232	338
25°	1116	1124	1147	1176	1186	514
35°	990	1000	1027	1060	1070	619
45°	824	826	850	867	868	635
55°	621	616	619	619	616	555
65°	404	387	375	360	355	401
75°	203	188	167	145	131	216
85°	48	38	34	34	34	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1240.5	1240.5	1240.5	1240.5	1240.5
2.5°	1242.2	1242.2	1238.8	1242.2	1243.9
5°	1238.8	1238.8	1237.1	1242.2	1243.9
7.5°	1232.0	1233.7	1233.7	1240.5	1243.9
10°	1223.4	1226.9	1228.6	1238.8	1240.5
12.5°	1213.2	1216.6	1221.7	1233.7	1235.4
15°	1197.8	1204.7	1213.2	1226.9	1232.0
17.5°	1182.5	1189.3	1199.6	1218.3	1223.4
20°	1162.0	1170.5	1185.9	1208.1	1216.6
22.5°	1141.5	1148.4	1167.1	1194.4	1203.0
25°	1115.9	1124.5	1146.7	1175.7	1185.9
27.5°	1086.9	1098.9	1122.8	1153.5	1163.7
30°	1057.9	1068.2	1093.8	1127.9	1138.1
32.5°	1023.8	1034.0	1063.0	1095.5	1107.4
35°	989.7	999.9	1027.2	1059.6	1069.9
37.5°	952.1	959.0	988.0	1015.3	1025.5
40°	912.9	918.0	943.6	970.9	977.7
42.5°	870.2	873.6	897.5	921.4	923.1
45°	824.2	825.9	849.8	866.8	868.5
47.5°	778.1	776.4	796.9	808.8	810.5
50°	726.9	726.9	740.5	747.4	747.4
52.5°	675.7	672.3	679.1	684.2	679.1
55°	621.1	616.0	619.4	619.4	616.0
57.5°	566.5	556.3	558.0	554.6	546.0
60°	513.6	501.7	496.5	484.6	477.8
62.5°	459.0	445.4	435.1	421.5	419.8
65°	404.4	387.3	375.4	360.0	354.9
67.5°	351.5	336.1	319.1	302.0	291.8
70°	298.6	281.5	266.2	244.0	232.1
72.5°	250.8	235.5	216.7	191.1	182.6
75°	203.1	187.7	167.2	145.0	131.4
77.5°	157.0	145.0	122.9	104.1	102.4
80°	121.1	107.5	81.9	76.8	76.8
82.5°	78.5	70.0	58.0	54.6	54.6
85°	47.8	37.5	34.1	34.1	34.1
87.5°	18.8	17.1	17.1	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)