

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: P295741

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295741  
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-5700K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3588.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 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

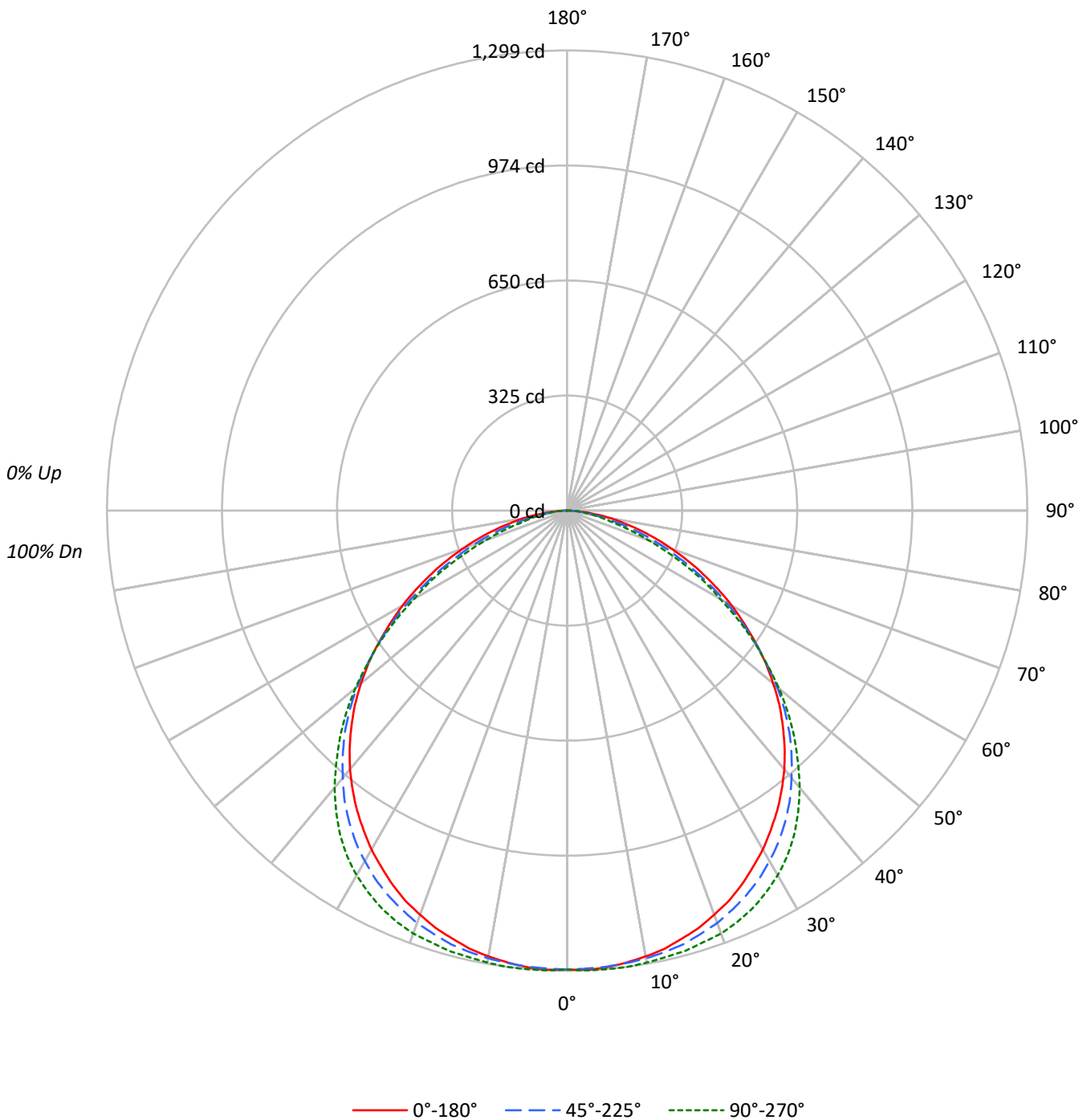
Input Watts (W): 40.548  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3487	3487	3487
5°	3495	3491	3510
10°	3492	3507	3541
15°	3486	3530	3585
20°	3476	3547	3639
25°	3461	3556	3678
30°	3434	3550	3694
35°	3396	3525	3671
40°	3349	3462	3588
45°	3276	3378	3452
50°	3179	3238	3268
55°	3044	3035	3019
60°	2887	2792	2686
65°	2690	2497	2360
70°	2454	2187	1907
75°	2205	1816	1426
80°	1960	1327	1243
85°	1541	1099	1099



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.3	3.4
10°-20°	358.5	10.0
20°-30°	553.2	15.4
30°-40°	671.0	18.7
40°-50°	681.2	19.0
50°-60°	576.3	16.1
60°-70°	389.9	10.9
70°-80°	188.5	5.3
80°-90°	46.0	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°	1035.0	28.8
0°-40°	1706.0	47.5
0°-60°	2963.6	82.6
0°-90°	3588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3588.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1294	1294	1292	1298	1299	123
15°	1251	1258	1267	1282	1287	353
25°	1166	1175	1198	1228	1239	537
35°	1034	1044	1073	1107	1118	646
45°	861	863	888	905	907	664
55°	649	643	647	647	643	580
65°	422	405	392	376	371	419
75°	212	196	175	152	137	226
85°	50	39	36	36	36	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1295.8	1295.8	1295.8	1295.8	1295.8
2.5°	1297.5	1297.5	1294.0	1297.5	1299.3
5°	1294.0	1294.0	1292.2	1297.5	1299.3
7.5°	1286.8	1288.6	1288.6	1295.8	1299.3
10°	1277.9	1281.5	1283.3	1294.0	1295.8
12.5°	1267.2	1270.8	1276.2	1288.6	1290.4
15°	1251.2	1258.3	1267.2	1281.5	1286.8
17.5°	1235.2	1242.3	1253.0	1272.6	1277.9
20°	1213.8	1222.7	1238.7	1261.9	1270.8
22.5°	1192.4	1199.5	1219.1	1247.6	1256.5
25°	1165.6	1174.6	1197.7	1228.0	1238.7
27.5°	1135.3	1147.8	1172.8	1204.9	1215.6
30°	1105.0	1115.7	1142.5	1178.1	1188.8
32.5°	1069.4	1080.1	1110.4	1144.3	1156.7
35°	1033.8	1044.4	1073.0	1106.8	1117.5
37.5°	994.5	1001.7	1032.0	1060.5	1071.2
40°	953.5	958.9	985.6	1014.1	1021.3
42.5°	909.0	912.6	937.5	962.5	964.2
45°	860.9	862.7	887.6	905.4	907.2
47.5°	812.7	811.0	832.4	844.8	846.6
50°	759.3	759.3	773.5	780.7	780.7
52.5°	705.8	702.2	709.4	714.7	709.4
55°	648.8	643.4	647.0	647.0	643.4
57.5°	591.7	581.0	582.8	579.3	570.3
60°	536.5	524.0	518.7	506.2	499.1
62.5°	479.4	465.2	454.5	440.2	438.5
65°	422.4	404.6	392.1	376.1	370.7
67.5°	367.2	351.1	333.3	315.5	304.8
70°	311.9	294.1	278.0	254.9	242.4
72.5°	262.0	246.0	226.4	199.6	190.7
75°	212.1	196.1	174.7	151.5	137.2
77.5°	164.0	151.5	128.3	108.7	106.9
80°	126.5	112.3	85.6	80.2	80.2
82.5°	82.0	73.1	60.6	57.0	57.0
85°	49.9	39.2	35.6	35.6	35.6
87.5°	19.6	17.8	17.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)