

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: P295758

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295758  
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-L93050-W2A1-U-3000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2353.0 lumens  
Efficiency: N/A  
Efficacy: 68.6 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

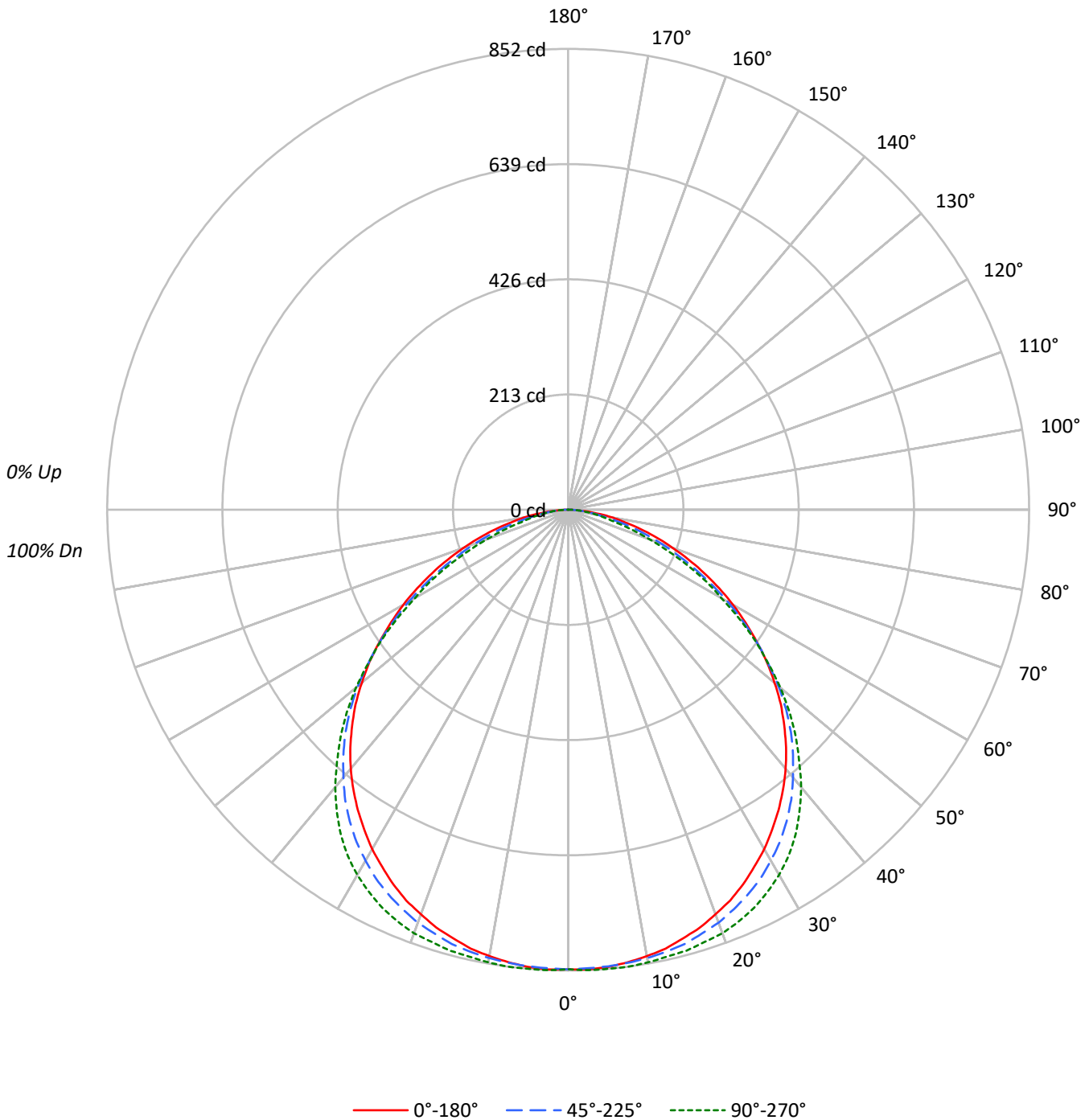
Input Watts (W): 34.317  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2287	2287	2287
5°	2292	2289	2302
10°	2290	2300	2322
15°	2286	2315	2351
20°	2279	2326	2387
25°	2270	2332	2412
30°	2252	2328	2422
35°	2227	2311	2408
40°	2197	2271	2353
45°	2149	2215	2264
50°	2084	2124	2143
55°	1996	1991	1980
60°	1893	1830	1762
65°	1764	1637	1548
70°	1609	1434	1251
75°	1446	1190	936
80°	1286	869	815
85°	1010	722	722



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.9	3.4
10°-20°	235.1	10.0
20°-30°	362.8	15.4
30°-40°	440.0	18.7
40°-50°	446.8	19.0
50°-60°	377.9	16.1
60°-70°	255.7	10.9
70°-80°	123.6	5.3
80°-90°	30.2	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°	678.8	28.8
0°-40°	1118.8	47.5
0°-60°	1943.5	82.6
0°-90°	2353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2353.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	849	849	847	851	852	81
15°	820	825	831	840	844	232
25°	764	770	786	805	812	352
35°	678	685	704	726	733	424
45°	565	566	582	594	595	435
55°	426	422	424	424	422	380
65°	277	265	257	247	243	275
75°	139	129	114	99	90	148
85°	33	26	23	23	23	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	849.8	849.8	849.8	849.8	849.8
2.5°	850.9	850.9	848.6	850.9	852.1
5°	848.6	848.6	847.4	850.9	852.1
7.5°	843.9	845.1	845.1	849.8	852.1
10°	838.1	840.4	841.6	848.6	849.8
12.5°	831.1	833.4	836.9	845.1	846.2
15°	820.5	825.2	831.1	840.4	843.9
17.5°	810.0	814.7	821.7	834.6	838.1
20°	796.0	801.8	812.4	827.5	833.4
22.5°	782.0	786.6	799.5	818.2	824.0
25°	764.4	770.3	785.5	805.3	812.4
27.5°	744.6	752.7	769.1	790.1	797.2
30°	724.7	731.7	749.2	772.6	779.6
32.5°	701.3	708.3	728.2	750.4	758.6
35°	677.9	684.9	703.6	725.9	732.9
37.5°	652.2	656.9	676.8	695.5	702.5
40°	625.3	628.8	646.4	665.1	669.8
42.5°	596.1	598.5	614.8	631.2	632.3
45°	564.6	565.7	582.1	593.8	594.9
47.5°	533.0	531.8	545.9	554.0	555.2
50°	497.9	497.9	507.3	512.0	512.0
52.5°	462.9	460.5	465.2	468.7	465.2
55°	425.5	422.0	424.3	424.3	422.0
57.5°	388.1	381.0	382.2	379.9	374.0
60°	351.8	343.6	340.1	332.0	327.3
62.5°	314.4	305.1	298.1	288.7	287.5
65°	277.0	265.3	257.1	246.6	243.1
67.5°	240.8	230.3	218.6	206.9	199.9
70°	204.5	192.9	182.3	167.1	159.0
72.5°	171.8	161.3	148.4	130.9	125.1
75°	139.1	128.6	114.5	99.4	90.0
77.5°	107.5	99.4	84.2	71.3	70.1
80°	83.0	73.6	56.1	52.6	52.6
82.5°	53.8	47.9	39.7	37.4	37.4
85°	32.7	25.7	23.4	23.4	23.4
87.5°	12.9	11.7	11.7	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)