

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: P295631

Luminaire Tested: **14RLN-LD5-23-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-23-UNV-L92765-W2A1-U-4000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2091.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

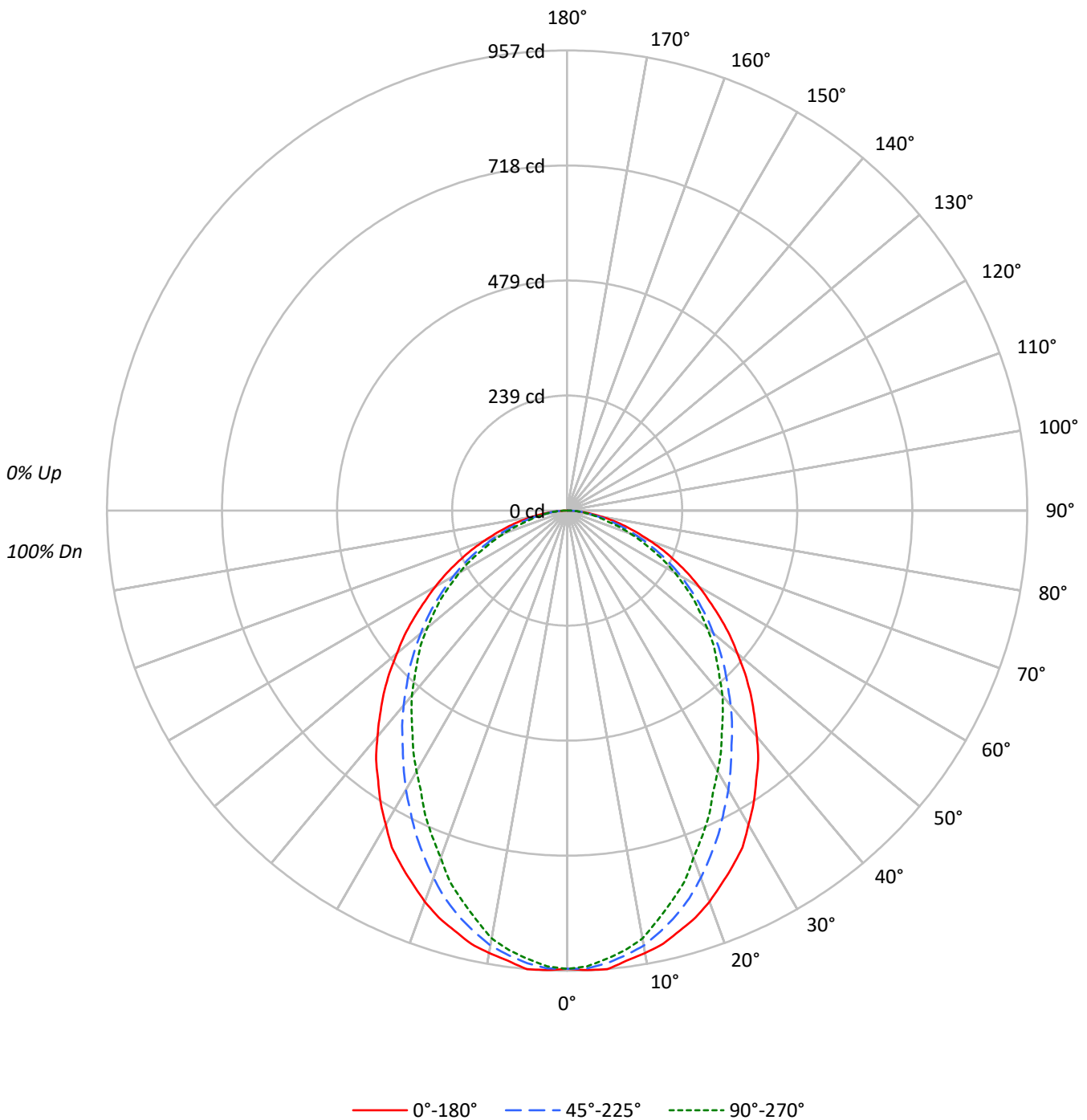
Input Watts (W): 20.925  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2565	2565	2565
5°	2586	2553	2529
10°	2553	2510	2469
15°	2520	2431	2342
20°	2479	2327	2200
25°	2420	2208	2074
30°	2344	2083	1946
35°	2252	1959	1842
40°	2156	1858	1766
45°	2054	1761	1674
50°	1934	1664	1590
55°	1823	1570	1504
60°	1707	1474	1393
65°	1580	1361	1249
70°	1438	1223	1105
75°	1294	1093	900
80°	1108	890	849
85°	898	846	846



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.2	4.3
10°-20°	244.9	11.7
20°-30°	343.7	16.4
30°-40°	381.2	18.2
40°-50°	366.0	17.5
50°-60°	306.7	14.7
60°-70°	215.3	10.3
70°-80°	112.4	5.4
80°-90°	31.5	1.5
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°	677.9	32.4
0°-40°	1059.1	50.7
0°-60°	1731.8	82.8
0°-90°	2091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	957	945	945	939	936	90
15°	904	888	873	850	841	255
25°	815	786	744	708	699	375
35°	685	647	596	567	561	429
45°	540	498	463	445	440	416
55°	389	360	335	324	321	348
65°	248	231	214	200	196	247
75°	124	115	105	93	87	132
85°	29	27	27	27	27	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	953.0	953.0	953.0	953.0	953.0
2.5°	956.5	951.2	953.0	953.0	948.6
5°	957.4	945.0	945.0	938.9	936.2
7.5°	944.2	934.4	932.7	924.7	922.1
10°	934.4	924.7	918.5	907.9	903.5
12.5°	923.0	907.9	896.5	878.8	871.7
15°	904.4	888.5	872.6	849.7	840.8
17.5°	887.6	869.1	845.2	819.6	809.9
20°	865.6	843.5	812.6	777.2	768.4
22.5°	839.9	814.3	778.1	740.1	733.1
25°	815.2	786.1	743.7	707.5	698.6
27.5°	789.6	754.3	705.7	666.8	658.0
30°	754.3	718.1	670.4	632.4	626.2
32.5°	721.6	685.4	633.3	602.4	595.3
35°	685.4	647.4	596.2	567.0	560.8
37.5°	652.7	608.5	563.5	535.2	531.7
40°	613.8	574.1	529.0	507.9	502.6
42.5°	575.9	536.1	493.7	475.2	469.0
45°	539.6	498.1	462.8	445.1	439.8
47.5°	501.7	463.7	430.1	416.0	412.5
50°	461.9	428.4	397.4	384.2	379.8
52.5°	426.6	392.1	366.5	354.2	348.9
55°	388.6	359.5	334.7	324.1	320.6
57.5°	350.6	326.8	302.9	293.2	287.9
60°	317.1	293.2	273.8	262.3	258.8
62.5°	282.6	262.3	243.8	233.2	228.8
65°	248.2	231.4	213.7	200.5	196.1
67.5°	216.4	197.8	183.7	172.2	167.8
70°	182.8	169.6	155.4	144.8	140.4
72.5°	151.9	142.2	129.8	118.4	113.9
75°	124.5	114.8	105.1	92.7	86.6
77.5°	97.2	91.0	81.3	70.7	70.7
80°	71.5	68.0	57.4	55.6	54.8
82.5°	49.5	47.7	41.5	40.6	40.6
85°	29.1	27.4	27.4	27.4	27.4
87.5°	12.4	13.2	14.1	14.1	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)