

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: P295641

Luminaire Tested: **14RLN-LD5-26-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295641  
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-LD5-26-UNV-L92765-W2A1-U-4500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2421.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 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

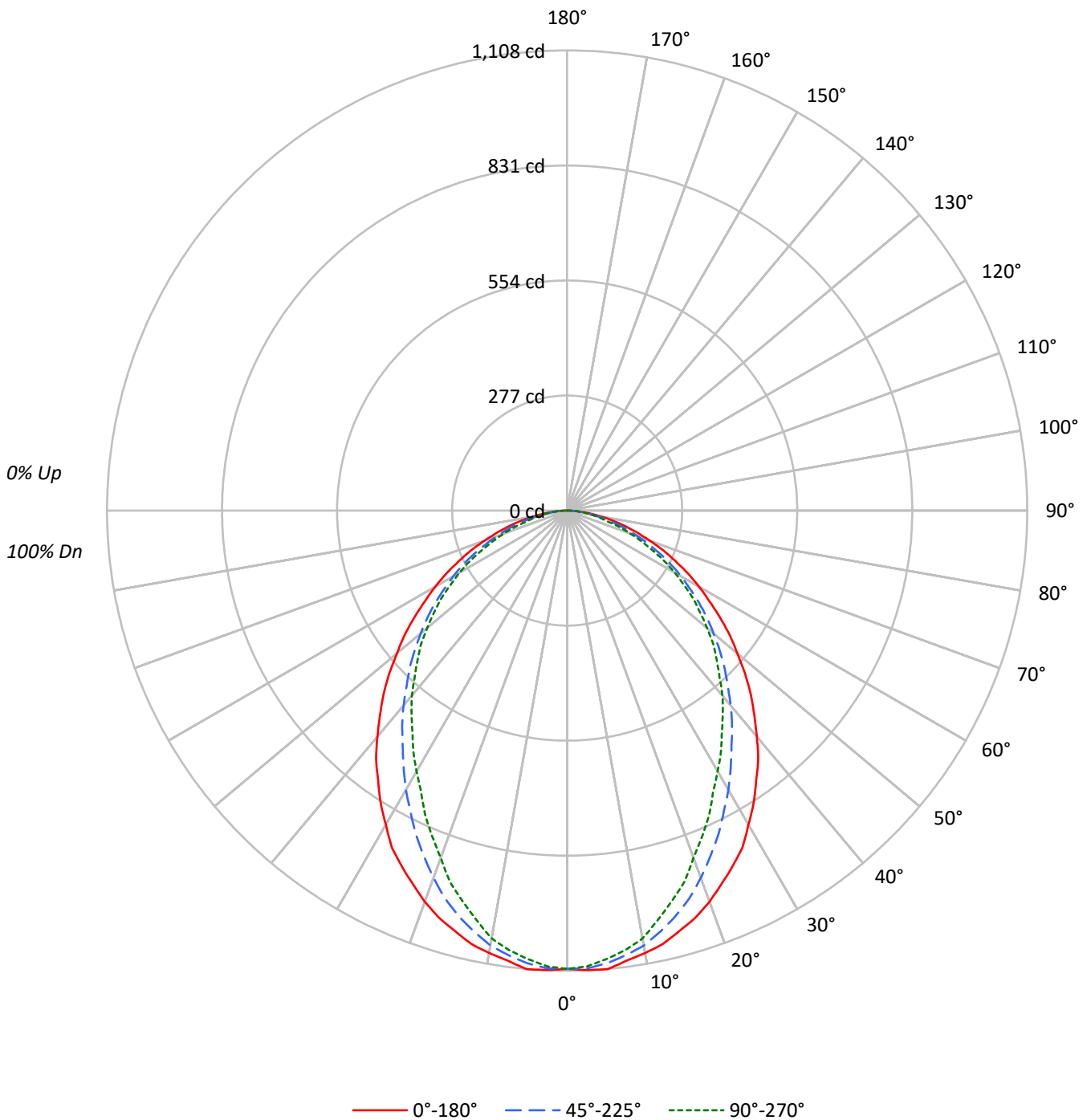
Input Watts (W): 24.273  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

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

	0°	45°	90°
0°	2969	2969	2969
5°	2994	2956	2928
10°	2956	2906	2858
15°	2917	2815	2712
20°	2870	2694	2548
25°	2803	2556	2402
30°	2714	2412	2253
35°	2607	2268	2133
40°	2497	2152	2044
45°	2378	2039	1938
50°	2239	1927	1841
55°	2111	1818	1742
60°	1976	1706	1612
65°	1830	1576	1445
70°	1666	1416	1279
75°	1499	1265	1042
80°	1283	1031	982
85°	1041	979	979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.3	4.3
10°-20°	283.6	11.7
20°-30°	398.0	16.4
30°-40°	441.4	18.2
40°-50°	423.7	17.5
50°-60°	355.1	14.7
60°-70°	249.3	10.3
70°-80°	130.2	5.4
80°-90°	36.4	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°	784.8	32.4
0°-40°	1226.2	50.7
0°-60°	2005.1	82.8
0°-90°	2421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2421.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1108	1094	1094	1087	1084	105
15°	1047	1029	1010	984	974	295
25°	944	910	861	819	809	434
35°	794	750	690	656	649	497
45°	625	577	536	515	509	481
55°	450	416	388	375	371	402
65°	287	268	248	232	227	286
75°	144	133	122	107	100	153
85°	34	32	32	32	32	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1103.4	1103.4	1103.4	1103.4	1103.4
2.5°	1107.5	1101.3	1103.4	1103.4	1098.3
5°	1108.5	1094.2	1094.2	1087.0	1084.0
7.5°	1093.2	1081.9	1079.9	1070.7	1067.6
10°	1081.9	1070.7	1063.5	1051.2	1046.1
12.5°	1068.6	1051.2	1037.9	1017.5	1009.3
15°	1047.2	1028.7	1010.3	983.7	973.5
17.5°	1027.7	1006.2	978.6	949.0	937.7
20°	1002.2	976.6	940.8	899.9	889.7
22.5°	972.5	942.8	900.9	856.9	848.8
25°	943.9	910.1	861.0	819.1	808.9
27.5°	914.2	873.3	817.1	772.1	761.8
30°	873.3	831.4	776.2	732.2	725.0
32.5°	835.5	793.5	733.2	697.4	689.2
35°	793.5	749.6	690.3	656.5	649.4
37.5°	755.7	704.6	652.4	619.7	615.6
40°	710.7	664.7	612.5	588.0	581.9
42.5°	666.7	620.7	571.6	550.2	543.0
45°	624.8	576.8	535.8	515.4	509.3
47.5°	580.8	536.9	498.0	481.6	477.6
50°	534.8	496.0	460.2	444.8	439.7
52.5°	493.9	454.0	424.4	410.1	403.9
55°	449.9	416.2	387.6	375.3	371.2
57.5°	406.0	378.4	350.8	339.5	333.4
60°	367.1	339.5	317.0	303.7	299.6
62.5°	327.2	303.7	282.2	270.0	264.9
65°	287.4	267.9	247.5	232.1	227.0
67.5°	250.5	229.1	212.7	199.4	194.3
70°	211.7	196.3	180.0	167.7	162.6
72.5°	175.9	164.6	150.3	137.0	131.9
75°	144.2	132.9	121.7	107.4	100.2
77.5°	112.5	105.3	94.1	81.8	81.8
80°	82.8	78.7	66.5	64.4	63.4
82.5°	57.3	55.2	48.1	47.0	47.0
85°	33.7	31.7	31.7	31.7	31.7
87.5°	14.3	15.3	16.4	16.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)