

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: P295638

Luminaire Tested: **14RLN-LD5-26-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295638  
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-3000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2177.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

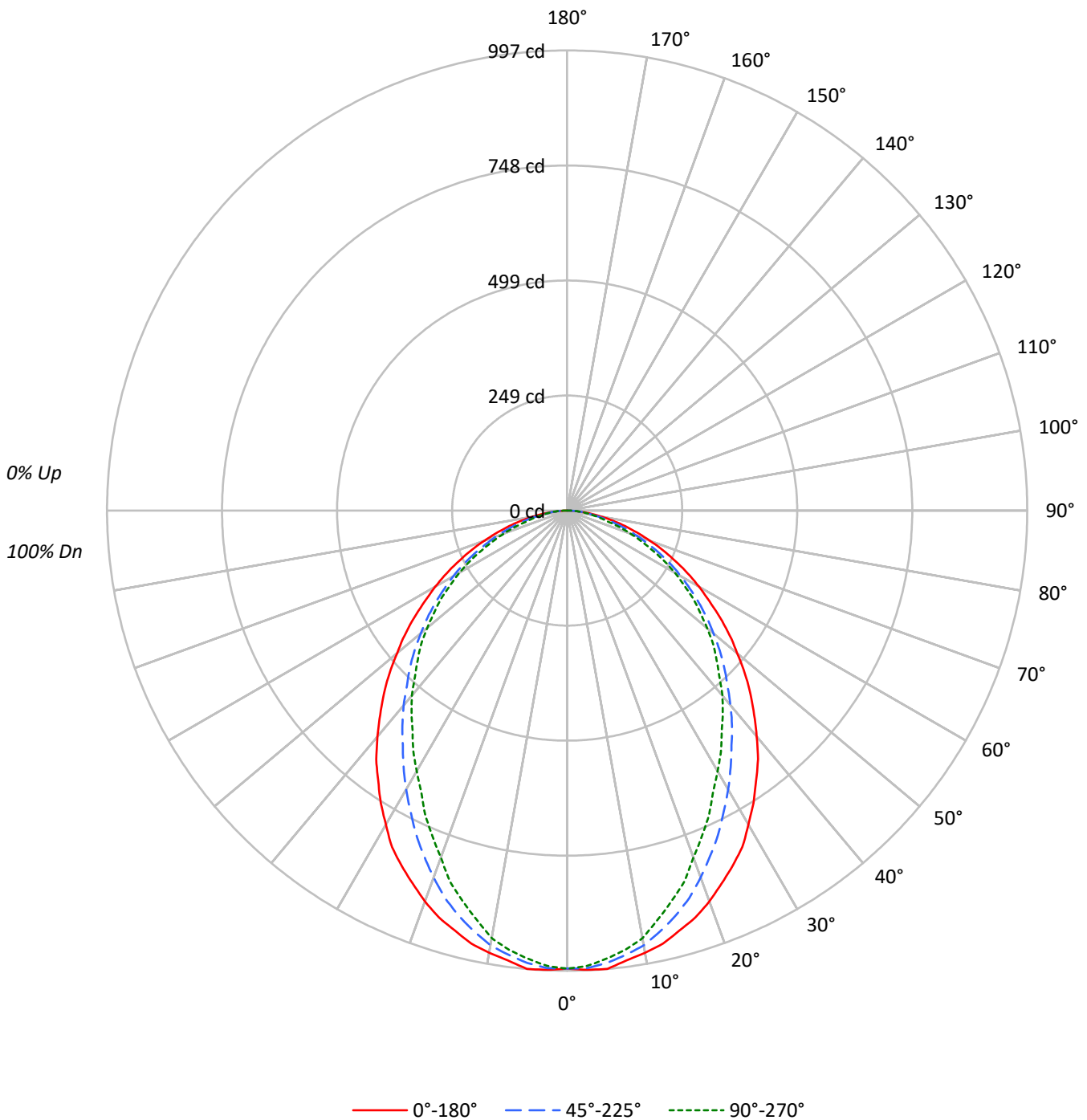
Input Watts (W): 23.622  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P295638

CATALOG NUMBER: 14RLN-LD5-26-UNV-L92765-W2A1-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P295638

CATALOG NUMBER: 14RLN-LD5-26-UNV-L92765-W2A1-U-3000K

**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°	2670	2670	2670
5°	2693	2658	2633
10°	2658	2613	2570
15°	2623	2531	2439
20°	2581	2423	2291
25°	2520	2299	2160
30°	2440	2169	2026
35°	2344	2039	1918
40°	2245	1935	1838
45°	2138	1834	1743
50°	2013	1732	1655
55°	1898	1635	1566
60°	1777	1534	1450
65°	1645	1417	1300
70°	1497	1273	1150
75°	1349	1137	937
80°	1155	927	883
85°	936	880	880



TEST NUMBER: P295638

CATALOG NUMBER: 14RLN-LD5-26-UNV-L92765-W2A1-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.9	4.3
10°-20°	255.0	11.7
20°-30°	357.9	16.4
30°-40°	396.9	18.2
40°-50°	381.0	17.5
50°-60°	319.3	14.7
60°-70°	224.2	10.3
70°-80°	117.1	5.4
80°-90°	32.8	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°	705.7	32.4
0°-40°	1102.6	50.7
0°-60°	1803.0	82.8
0°-90°	2177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2177.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	997	984	984	978	975	94
15°	942	925	908	885	875	266
25°	849	818	774	737	727	391
35°	714	674	621	590	584	447
45°	562	519	482	464	458	433
55°	405	374	348	338	334	362
65°	258	241	222	209	204	257
75°	130	120	109	97	90	137
85°	30	28	28	28	28	36
90°	0	0	0	0	0	



TEST NUMBER: P295638

CATALOG NUMBER: 14RLN-LD5-26-UNV-L92765-W2A1-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	992.2	992.2	992.2	992.2	992.2
2.5°	995.9	990.4	992.2	992.2	987.6
5°	996.8	983.9	983.9	977.5	974.7
7.5°	983.0	972.9	971.0	962.8	960.0
10°	972.9	962.8	956.3	945.3	940.7
12.5°	960.9	945.3	933.3	914.9	907.6
15°	941.6	925.1	908.5	884.6	875.4
17.5°	924.1	904.8	880.0	853.3	843.2
20°	901.2	878.2	846.0	809.2	800.0
22.5°	874.5	847.8	810.1	770.6	763.2
25°	848.7	818.4	774.3	736.6	727.4
27.5°	822.1	785.3	734.7	694.3	685.1
30°	785.3	747.6	697.9	658.4	652.0
32.5°	751.3	713.6	659.3	627.1	619.8
35°	713.6	674.0	620.7	590.3	583.9
37.5°	679.5	633.6	586.7	557.2	553.6
40°	639.1	597.7	550.8	528.7	523.2
42.5°	599.5	558.2	514.0	494.7	488.3
45°	561.8	518.6	481.8	463.5	457.9
47.5°	522.3	482.8	447.8	433.1	429.4
50°	480.9	446.0	413.8	400.0	395.4
52.5°	444.1	408.3	381.6	368.7	363.2
55°	404.6	374.3	348.5	337.5	333.8
57.5°	365.1	340.2	315.4	305.3	299.8
60°	330.1	305.3	285.1	273.1	269.4
62.5°	294.3	273.1	253.8	242.8	238.2
65°	258.4	240.9	222.5	208.7	204.1
67.5°	225.3	206.0	191.3	179.3	174.7
70°	190.3	176.6	161.8	150.8	146.2
72.5°	158.2	148.0	135.2	123.2	118.6
75°	129.7	119.5	109.4	96.6	90.1
77.5°	101.1	94.7	84.6	73.6	73.6
80°	74.5	70.8	59.8	57.9	57.0
82.5°	51.5	49.7	43.2	42.3	42.3
85°	30.3	28.5	28.5	28.5	28.5
87.5°	12.9	13.8	14.7	14.7	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)