

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: P295564

Luminaire Tested: **14RLN-LD5-23-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295564
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-L82765-W2A1-U-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2461.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

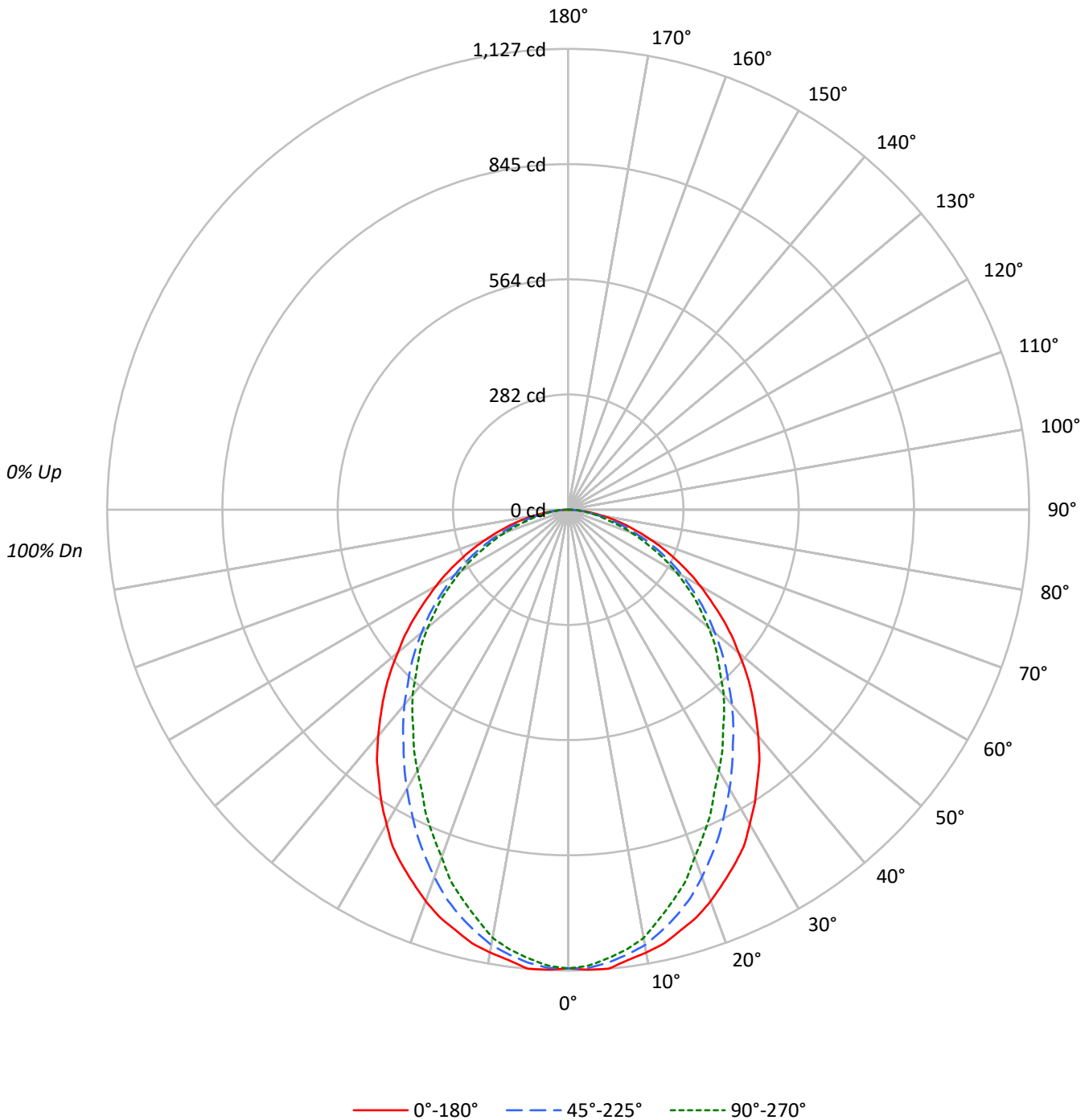
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295564

CATALOG NUMBER: 14RLN-LD5-23-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P295564

CATALOG NUMBER: 14RLN-LD5-23-UNV-L82765-W2A1-U-5500K

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°	3018	3018	3018
5°	3044	3005	2977
10°	3005	2954	2906
15°	2966	2861	2757
20°	2917	2739	2590
25°	2849	2599	2441
30°	2758	2452	2290
35°	2650	2305	2168
40°	2538	2187	2078
45°	2417	2073	1970
50°	2276	1958	1871
55°	2146	1848	1770
60°	2009	1734	1639
65°	1860	1602	1470
70°	1693	1440	1301
75°	1524	1286	1059
80°	1305	1048	998
85°	1059	994	994



TEST NUMBER: P295564

CATALOG NUMBER: 14RLN-LD5-23-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	4.3
10°-20°	288.2	11.7
20°-30°	404.5	16.4
30°-40°	448.7	18.2
40°-50°	430.7	17.5
50°-60°	361.0	14.7
60°-70°	253.4	10.3
70°-80°	132.3	5.4
80°-90°	37.0	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°	797.8	32.4
0°-40°	1246.5	50.6
0°-60°	2038.2	82.8
0°-90°	2461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1127	1112	1112	1105	1102	106
15°	1064	1046	1027	1000	990	300
25°	960	925	875	833	822	442
35°	807	762	702	667	660	505
45°	635	586	545	524	518	489
55°	457	423	394	382	377	409
65°	292	272	252	236	231	290
75°	147	135	124	109	102	155
85°	34	32	32	32	32	41
90°	0	0	0	0	0	



TEST NUMBER: P295564

CATALOG NUMBER: 14RLN-LD5-23-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1121.6	1121.6	1121.6	1121.6	1121.6
2.5°	1125.8	1119.5	1121.6	1121.6	1116.4
5°	1126.8	1112.3	1112.3	1105.0	1101.9
7.5°	1111.2	1099.8	1097.7	1088.4	1085.2
10°	1099.8	1088.4	1081.1	1068.6	1063.4
12.5°	1086.3	1068.6	1055.1	1034.3	1026.0
15°	1064.5	1045.7	1027.0	1000.0	989.6
17.5°	1044.7	1022.9	994.8	964.7	953.2
20°	1018.7	992.7	956.3	914.8	904.4
22.5°	988.6	958.4	915.8	871.1	862.8
25°	959.5	925.2	875.3	832.6	822.2
27.5°	929.3	887.7	830.6	784.8	774.4
30°	887.7	845.1	789.0	744.3	737.0
32.5°	849.3	806.7	745.3	708.9	700.6
35°	806.7	762.0	701.7	667.4	660.1
37.5°	768.2	716.2	663.2	629.9	625.8
40°	722.5	675.7	622.7	597.7	591.5
42.5°	677.8	631.0	581.1	559.3	552.0
45°	635.1	586.3	544.7	523.9	517.7
47.5°	590.4	545.7	506.2	489.6	485.4
50°	543.7	504.2	467.8	452.2	447.0
52.5°	502.1	461.5	431.4	416.8	410.6
55°	457.4	423.1	394.0	381.5	377.3
57.5°	412.7	384.6	356.6	345.1	338.9
60°	373.2	345.1	322.2	308.7	304.6
62.5°	332.6	308.7	286.9	274.4	269.2
65°	292.1	272.4	251.6	236.0	230.8
67.5°	254.7	232.8	216.2	202.7	197.5
70°	215.2	199.6	183.0	170.5	165.3
72.5°	178.8	167.4	152.8	139.3	134.1
75°	146.6	135.1	123.7	109.1	101.9
77.5°	114.3	107.1	95.6	83.2	83.2
80°	84.2	80.0	67.6	65.5	64.4
82.5°	58.2	56.1	48.9	47.8	47.8
85°	34.3	32.2	32.2	32.2	32.2
87.5°	14.6	15.6	16.6	16.6	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)