

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: P295703

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295703
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-LD5-23-RDP-UNV-L82765-W2A1-U-5000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2067.0 lumens
Efficiency: N/A
Efficacy: 97.9 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

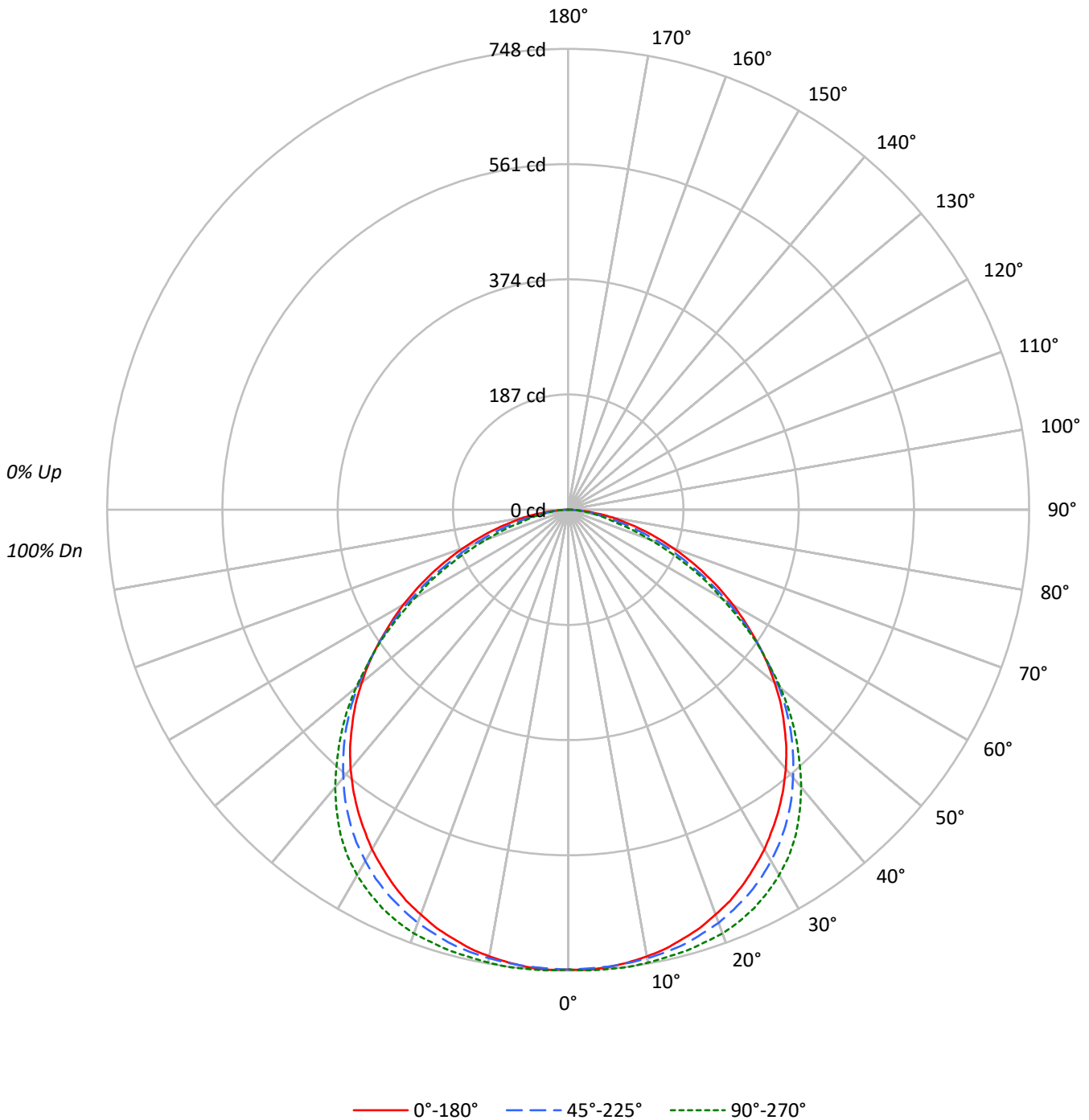
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295703

CATALOG NUMBER: 14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P295703

CATALOG NUMBER: 14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-5000K

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°	2009	2009	2009
5°	2014	2011	2022
10°	2012	2020	2040
15°	2008	2034	2065
20°	2002	2044	2096
25°	1994	2049	2119
30°	1978	2045	2128
35°	1956	2031	2115
40°	1930	1995	2067
45°	1887	1946	1989
50°	1831	1865	1883
55°	1753	1749	1739
60°	1664	1608	1547
65°	1549	1438	1360
70°	1414	1260	1098
75°	1271	1046	822
80°	1130	764	716
85°	886	633	633



TEST NUMBER: P295703

CATALOG NUMBER: 14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.4
10°-20°	206.5	10.0
20°-30°	318.7	15.4
30°-40°	386.5	18.7
40°-50°	392.5	19.0
50°-60°	332.0	16.1
60°-70°	224.6	10.9
70°-80°	108.6	5.3
80°-90°	26.5	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°	596.3	28.8
0°-40°	982.8	47.5
0°-60°	1707.3	82.6
0°-90°	2067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	745	745	744	748	748	71
15°	721	725	730	738	741	204
25°	672	677	690	708	714	309
35°	596	602	618	638	644	372
45°	496	497	511	522	523	382
55°	374	371	373	373	371	334
65°	243	233	226	217	214	241
75°	122	113	101	87	79	130
85°	29	23	20	20	20	34
90°	0	0	0	0	0	



TEST NUMBER: P295703

CATALOG NUMBER: 14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.5	746.5	746.5	746.5	746.5
2.5°	747.5	747.5	745.4	747.5	748.5
5°	745.4	745.4	744.4	747.5	748.5
7.5°	741.3	742.4	742.4	746.5	748.5
10°	736.2	738.3	739.3	745.4	746.5
12.5°	730.0	732.1	735.2	742.4	743.4
15°	720.8	724.9	730.0	738.3	741.3
17.5°	711.6	715.7	721.8	733.1	736.2
20°	699.2	704.4	713.6	727.0	732.1
22.5°	686.9	691.0	702.3	718.7	723.9
25°	671.5	676.6	690.0	707.5	713.6
27.5°	654.1	661.2	675.6	694.1	700.3
30°	636.6	642.8	658.2	678.7	684.9
32.5°	616.1	622.2	639.7	659.2	666.4
35°	595.5	601.7	618.1	637.6	643.8
37.5°	572.9	577.1	594.5	610.9	617.1
40°	549.3	552.4	567.8	584.2	588.3
42.5°	523.7	525.7	540.1	554.5	555.5
45°	495.9	497.0	511.3	521.6	522.6
47.5°	468.2	467.2	479.5	486.7	487.7
50°	437.4	437.4	445.6	449.7	449.7
52.5°	406.6	404.6	408.7	411.7	408.7
55°	373.7	370.7	372.7	372.7	370.7
57.5°	340.9	334.7	335.8	333.7	328.6
60°	309.1	301.9	298.8	291.6	287.5
62.5°	276.2	268.0	261.8	253.6	252.6
65°	243.3	233.1	225.9	216.7	213.6
67.5°	211.5	202.3	192.0	181.7	175.6
70°	179.7	169.4	160.2	146.8	139.6
72.5°	150.9	141.7	130.4	115.0	109.9
75°	122.2	112.9	100.6	87.3	79.1
77.5°	94.5	87.3	73.9	62.6	61.6
80°	72.9	64.7	49.3	46.2	46.2
82.5°	47.2	42.1	34.9	32.9	32.9
85°	28.7	22.6	20.5	20.5	20.5
87.5°	11.3	10.3	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)