

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: P295702

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295702
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-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2040.0 lumens
Efficiency: N/A
Efficacy: 97.1 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

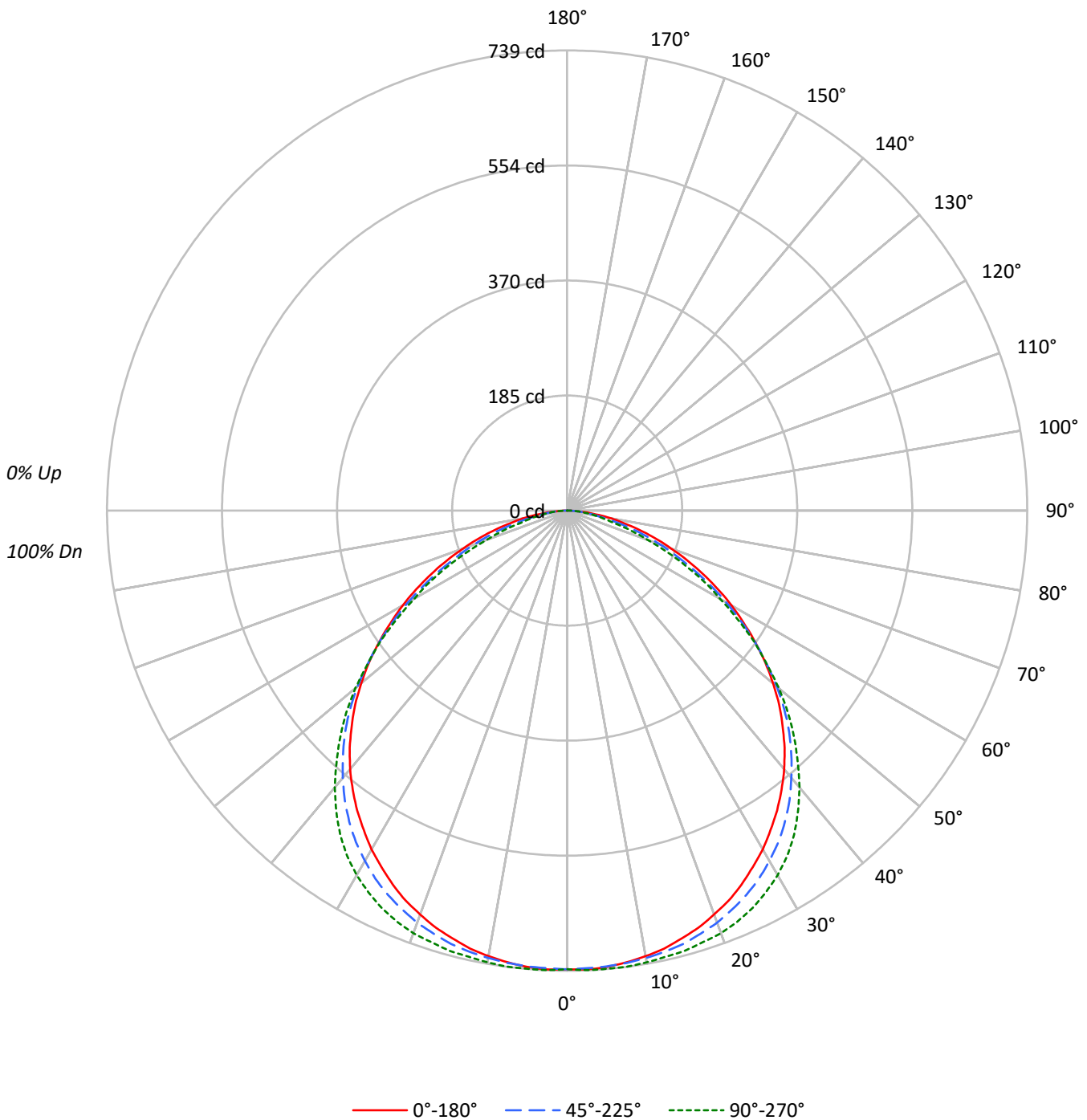
Input Watts (W): 21.018
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295702

CATALOG NUMBER: 14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P295702

CATALOG NUMBER: 14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-4500K

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°	1982	1982	1982
5°	1987	1985	1995
10°	1985	1994	2013
15°	1982	2007	2038
20°	1976	2017	2069
25°	1968	2022	2091
30°	1952	2018	2100
35°	1931	2004	2087
40°	1905	1969	2040
45°	1863	1921	1963
50°	1807	1841	1858
55°	1731	1726	1716
60°	1641	1587	1527
65°	1529	1419	1342
70°	1395	1244	1084
75°	1254	1032	811
80°	1114	753	707
85°	877	627	627



TEST NUMBER: P295702

CATALOG NUMBER: 14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.4
10°-20°	203.8	10.0
20°-30°	314.5	15.4
30°-40°	381.5	18.7
40°-50°	387.3	19.0
50°-60°	327.7	16.1
60°-70°	221.7	10.9
70°-80°	107.2	5.3
80°-90°	26.1	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°	588.5	28.8
0°-40°	970.0	47.5
0°-60°	1685.0	82.6
0°-90°	2040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	736	736	735	738	739	70
15°	711	715	720	729	732	201
25°	663	668	681	698	704	305
35°	588	594	610	629	635	367
45°	490	490	505	515	516	377
55°	369	366	368	368	366	330
65°	240	230	223	214	211	238
75°	121	112	99	86	78	128
85°	28	22	20	20	20	33
90°	0	0	0	0	0	



TEST NUMBER: P295702

CATALOG NUMBER: 14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.7	736.7	736.7	736.7	736.7
2.5°	737.7	737.7	735.7	737.7	738.7
5°	735.7	735.7	734.7	737.7	738.7
7.5°	731.7	732.7	732.7	736.7	738.7
10°	726.6	728.6	729.6	735.7	736.7
12.5°	720.5	722.5	725.6	732.7	733.7
15°	711.4	715.4	720.5	728.6	731.7
17.5°	702.3	706.3	712.4	723.5	726.6
20°	690.1	695.2	704.3	717.5	722.5
22.5°	677.9	682.0	693.1	709.4	714.4
25°	662.7	667.8	681.0	698.2	704.3
27.5°	645.5	652.6	666.8	685.0	691.1
30°	628.3	634.4	649.6	669.8	675.9
32.5°	608.0	614.1	631.3	650.6	657.7
35°	587.8	593.8	610.0	629.3	635.4
37.5°	565.5	569.5	586.7	603.0	609.0
40°	542.2	545.2	560.4	576.6	580.7
42.5°	516.8	518.8	533.0	547.2	548.2
45°	489.5	490.5	504.7	514.8	515.8
47.5°	462.1	461.1	473.2	480.3	481.3
50°	431.7	431.7	439.8	443.9	443.9
52.5°	401.3	399.3	403.3	406.4	403.3
55°	368.9	365.8	367.9	367.9	365.8
57.5°	336.4	330.4	331.4	329.3	324.3
60°	305.0	297.9	294.9	287.8	283.7
62.5°	272.6	264.5	258.4	250.3	249.3
65°	240.2	230.0	222.9	213.8	210.8
67.5°	208.8	199.6	189.5	179.4	173.3
70°	177.3	167.2	158.1	144.9	137.8
72.5°	149.0	139.8	128.7	113.5	108.4
75°	120.6	111.5	99.3	86.1	78.0
77.5°	93.2	86.1	73.0	61.8	60.8
80°	71.9	63.8	48.6	45.6	45.6
82.5°	46.6	41.5	34.5	32.4	32.4
85°	28.4	22.3	20.3	20.3	20.3
87.5°	11.1	10.1	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)