

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: P295785

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295785
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-LD5-26-RDP-UNV-L92765-W2A1-U-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2151.0 lumens
Efficiency: N/A
Efficacy: 86.3 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

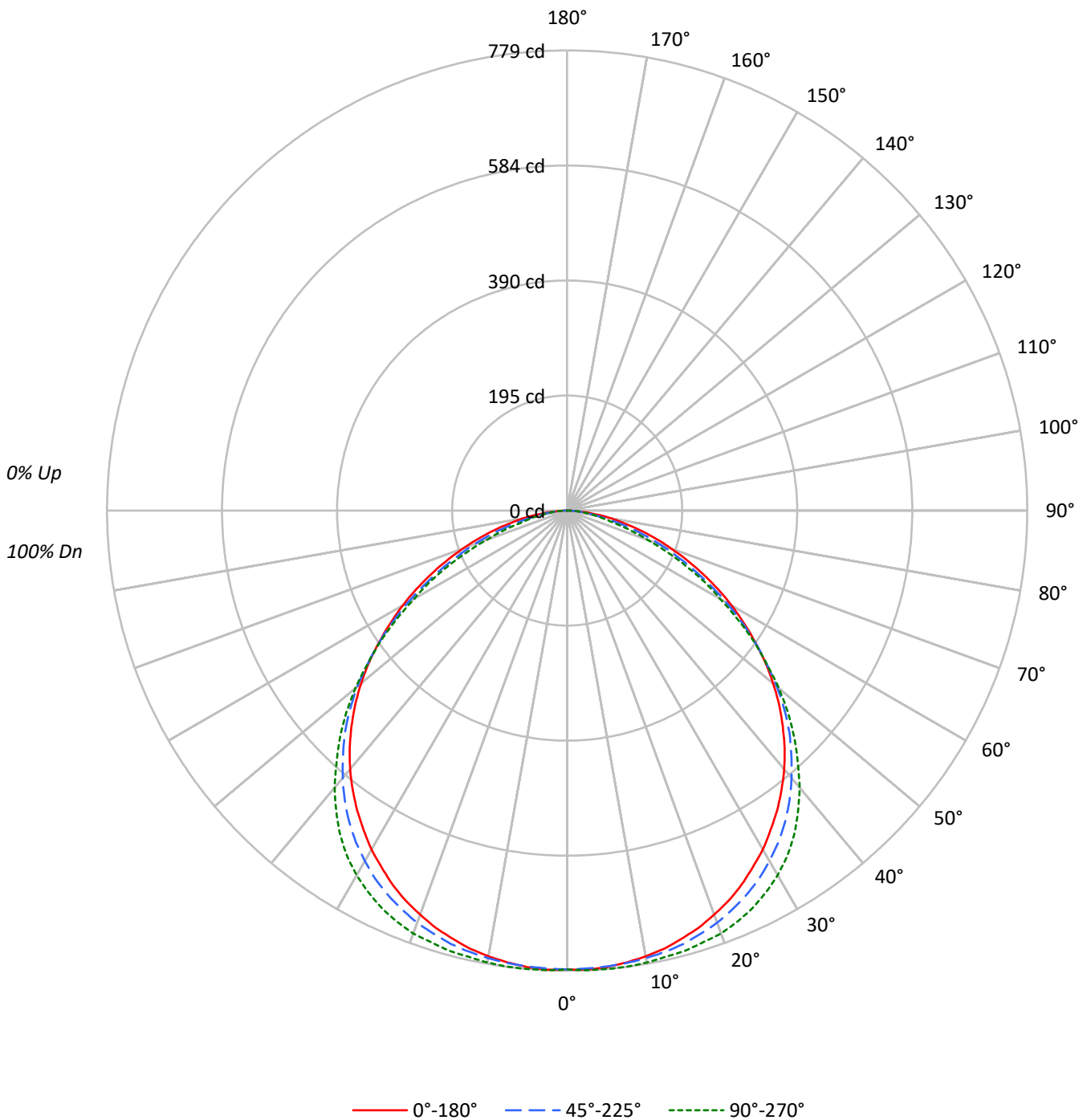
Input Watts (W): 24.924
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295785

CATALOG NUMBER: 14RLN-LD5-26-RDP-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P295785

CATALOG NUMBER: 14RLN-LD5-26-RDP-UNV-L92765-W2A1-U-6500K

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°	2090	2090	2090
5°	2095	2093	2104
10°	2093	2102	2123
15°	2090	2116	2149
20°	2084	2127	2182
25°	2075	2132	2205
30°	2059	2128	2215
35°	2036	2113	2201
40°	2008	2076	2151
45°	1964	2025	2070
50°	1906	1941	1959
55°	1825	1820	1810
60°	1731	1673	1610
65°	1612	1497	1415
70°	1471	1312	1143
75°	1323	1089	856
80°	1176	795	745
85°	923	661	661



TEST NUMBER: P295785

CATALOG NUMBER: 14RLN-LD5-26-RDP-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	3.4
10°-20°	214.9	10.0
20°-30°	331.7	15.4
30°-40°	402.3	18.7
40°-50°	408.4	19.0
50°-60°	345.5	16.1
60°-70°	233.8	10.9
70°-80°	113.0	5.3
80°-90°	27.6	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°	620.5	28.8
0°-40°	1022.8	47.5
0°-60°	1776.7	82.6
0°-90°	2151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	776	776	775	778	779	74
15°	750	754	760	768	772	212
25°	699	704	718	736	743	322
35°	620	626	643	664	670	387
45°	516	517	532	543	544	398
55°	389	386	388	388	386	348
65°	253	243	235	226	222	251
75°	127	118	105	91	82	136
85°	30	24	21	21	21	35
90°	0	0	0	0	0	



TEST NUMBER: P295785

CATALOG NUMBER: 14RLN-LD5-26-RDP-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.8	776.8	776.8	776.8	776.8
2.5°	777.9	777.9	775.7	777.9	778.9
5°	775.7	775.7	774.7	777.9	778.9
7.5°	771.5	772.5	772.5	776.8	778.9
10°	766.1	768.3	769.3	775.7	776.8
12.5°	759.7	761.8	765.1	772.5	773.6
15°	750.1	754.4	759.7	768.3	771.5
17.5°	740.5	744.7	751.2	762.9	766.1
20°	727.7	733.0	742.6	756.5	761.8
22.5°	714.8	719.1	730.9	748.0	753.3
25°	698.8	704.1	718.0	736.2	742.6
27.5°	680.6	688.1	703.1	722.3	728.7
30°	662.5	668.9	684.9	706.3	712.7
32.5°	641.1	647.5	665.7	686.0	693.5
35°	619.7	626.1	643.2	663.5	670.0
37.5°	596.2	600.5	618.7	635.8	642.2
40°	571.7	574.9	590.9	608.0	612.3
42.5°	544.9	547.1	562.0	577.0	578.1
45°	516.1	517.2	532.1	542.8	543.9
47.5°	487.2	486.2	499.0	506.5	507.5
50°	455.2	455.2	463.7	468.0	468.0
52.5°	423.1	421.0	425.3	428.5	425.3
55°	388.9	385.7	387.9	387.9	385.7
57.5°	354.7	348.3	349.4	347.3	341.9
60°	321.6	314.1	310.9	303.5	299.2
62.5°	287.4	278.9	272.5	263.9	262.9
65°	253.2	242.6	235.1	225.5	222.2
67.5°	220.1	210.5	199.8	189.1	182.7
70°	187.0	176.3	166.7	152.8	145.3
72.5°	157.1	147.5	135.7	119.7	114.3
75°	127.2	117.5	104.7	90.8	82.3
77.5°	98.3	90.8	76.9	65.2	64.1
80°	75.9	67.3	51.3	48.1	48.1
82.5°	49.2	43.8	36.3	34.2	34.2
85°	29.9	23.5	21.4	21.4	21.4
87.5°	11.8	10.7	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)