

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: P295795

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295795
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-LD5-35-RDP-UNV-L92765-W2A1-U-2700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2370.0 lumens
Efficiency: N/A
Efficacy: 70.8 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

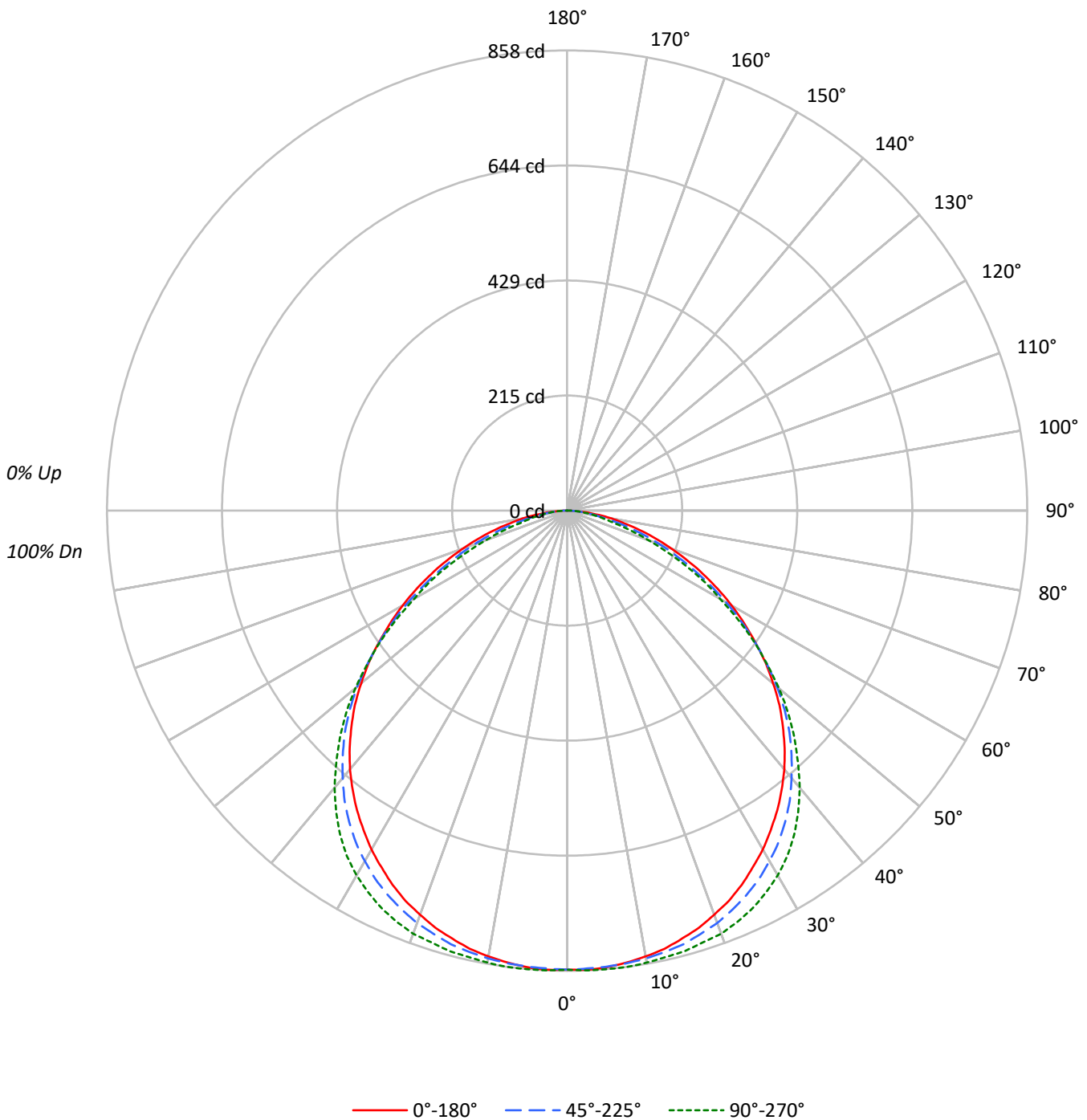
Input Watts (W): 33.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295795

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P295795

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-2700K

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°	2303	2303	2303
5°	2309	2306	2318
10°	2306	2316	2339
15°	2303	2332	2368
20°	2296	2343	2404
25°	2286	2349	2429
30°	2268	2345	2440
35°	2243	2328	2425
40°	2213	2287	2370
45°	2164	2231	2280
50°	2099	2139	2159
55°	2010	2005	1994
60°	1907	1844	1774
65°	1777	1649	1559
70°	1621	1445	1260
75°	1457	1200	943
80°	1296	876	821
85°	1019	726	726



TEST NUMBER: P295795

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.4
10°-20°	236.8	10.0
20°-30°	365.4	15.4
30°-40°	443.2	18.7
40°-50°	450.0	19.0
50°-60°	380.7	16.1
60°-70°	257.6	10.9
70°-80°	124.5	5.3
80°-90°	30.4	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°	683.7	28.8
0°-40°	1126.9	47.5
0°-60°	1957.6	82.6
0°-90°	2370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	855	855	854	857	858	81
15°	826	831	837	846	850	233
25°	770	776	791	811	818	355
35°	683	690	709	731	738	427
45°	569	570	586	598	599	438
55°	428	425	427	427	425	383
65°	279	267	259	248	245	277
75°	140	130	115	100	91	149
85°	33	26	24	24	24	39
90°	0	0	0	0	0	



TEST NUMBER: P295795

CATALOG NUMBER: 14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.9	855.9	855.9	855.9	855.9
2.5°	857.1	857.1	854.7	857.1	858.2
5°	854.7	854.7	853.5	857.1	858.2
7.5°	850.0	851.2	851.2	855.9	858.2
10°	844.1	846.5	847.7	854.7	855.9
12.5°	837.1	839.4	842.9	851.2	852.4
15°	826.5	831.2	837.1	846.5	850.0
17.5°	815.9	820.6	827.6	840.6	844.1
20°	801.7	807.6	818.2	833.5	839.4
22.5°	787.6	792.3	805.3	824.1	830.0
25°	770.0	775.8	791.1	811.2	818.2
27.5°	749.9	758.2	774.7	795.9	802.9
30°	729.9	737.0	754.6	778.2	785.3
32.5°	706.4	713.4	733.5	755.8	764.1
35°	682.8	689.9	708.7	731.1	738.2
37.5°	656.9	661.6	681.7	700.5	707.6
40°	629.9	633.4	651.0	669.9	674.6
42.5°	600.4	602.8	619.3	635.7	636.9
45°	568.6	569.8	586.3	598.1	599.2
47.5°	536.8	535.7	549.8	558.0	559.2
50°	501.5	501.5	510.9	515.7	515.7
52.5°	466.2	463.9	468.6	472.1	468.6
55°	428.5	425.0	427.4	427.4	425.0
57.5°	390.9	383.8	385.0	382.6	376.7
60°	354.4	346.1	342.6	334.4	329.6
62.5°	316.7	307.3	300.2	290.8	289.6
65°	279.0	267.2	259.0	248.4	244.9
67.5°	242.5	231.9	220.2	208.4	201.3
70°	206.0	194.3	183.7	168.4	160.1
72.5°	173.1	162.5	149.5	131.9	126.0
75°	140.1	129.5	115.4	100.1	90.7
77.5°	108.3	100.1	84.8	71.8	70.6
80°	83.6	74.2	56.5	53.0	53.0
82.5°	54.2	48.3	40.0	37.7	37.7
85°	33.0	25.9	23.5	23.5	23.5
87.5°	13.0	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)