

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: P295565

Luminaire Tested: **14RLN-LD5-23-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295565
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-5700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2468.0 lumens
Efficiency: N/A
Efficacy: 116.4 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

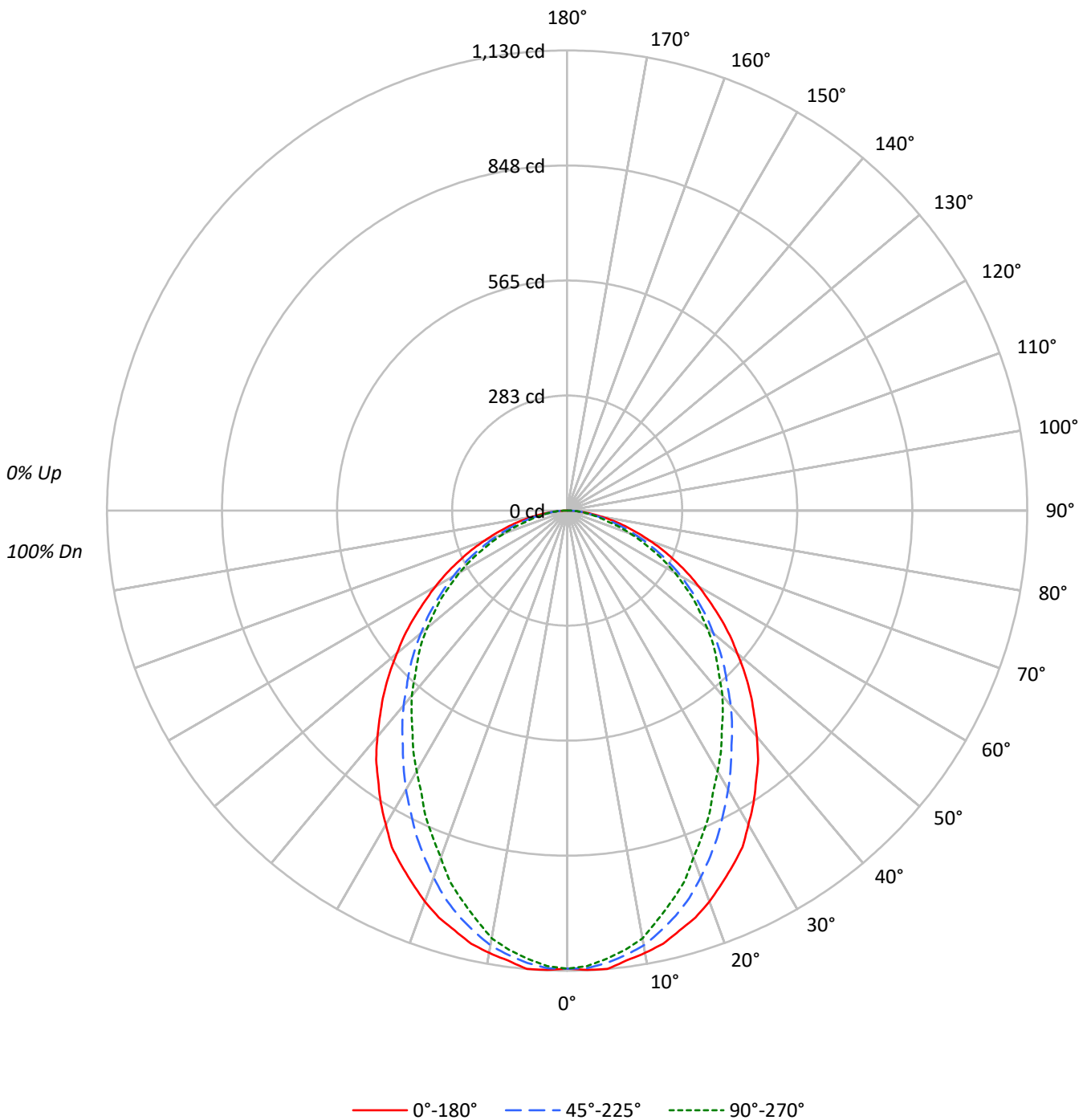
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295565

CATALOG NUMBER: 14RLN-LD5-23-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P295565

CATALOG NUMBER: 14RLN-LD5-23-UNV-L82765-W2A1-U-5700K

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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3027	3027	3027
5°	3052	3013	2985
10°	3014	2963	2914
15°	2974	2869	2765
20°	2926	2747	2597
25°	2857	2606	2448
30°	2766	2458	2297
35°	2657	2312	2175
40°	2545	2193	2084
45°	2424	2079	1975
50°	2282	1964	1877
55°	2152	1854	1775
60°	2014	1739	1644
65°	1865	1606	1473
70°	1698	1444	1304
75°	1528	1290	1063
80°	1308	1051	1001
85°	1062	997	997



TEST NUMBER: P295565

CATALOG NUMBER: 14RLN-LD5-23-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	4.3
10°-20°	289.1	11.7
20°-30°	405.7	16.4
30°-40°	450.0	18.2
40°-50°	432.0	17.5
50°-60°	362.0	14.7
60°-70°	254.1	10.3
70°-80°	132.7	5.4
80°-90°	37.1	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°	800.1	32.4
0°-40°	1250.0	50.6
0°-60°	2044.0	82.8
0°-90°	2468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1130	1115	1115	1108	1105	107
15°	1068	1049	1030	1003	992	301
25°	962	928	878	835	825	443
35°	809	764	704	669	662	507
45°	637	588	546	525	519	491
55°	459	424	395	383	378	410
65°	293	273	252	237	231	291
75°	147	136	124	110	102	156
85°	34	32	32	32	32	41
90°	0	0	0	0	0	



TEST NUMBER: P295565

CATALOG NUMBER: 14RLN-LD5-23-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1124.8	1124.8	1124.8	1124.8	1124.8
2.5°	1129.0	1122.7	1124.8	1124.8	1119.6
5°	1130.0	1115.4	1115.4	1108.1	1105.0
7.5°	1114.4	1102.9	1100.8	1091.5	1088.3
10°	1102.9	1091.5	1084.2	1071.7	1066.4
12.5°	1089.4	1071.7	1058.1	1037.2	1028.9
15°	1067.5	1048.7	1030.0	1002.8	992.4
17.5°	1047.7	1025.8	997.6	967.4	955.9
20°	1021.6	995.6	959.1	917.4	906.9
22.5°	991.4	961.1	918.4	873.6	865.2
25°	962.2	927.8	877.8	835.0	824.6
27.5°	932.0	890.3	832.9	787.1	776.6
30°	890.3	847.5	791.2	746.4	739.1
32.5°	851.7	808.9	747.4	711.0	702.6
35°	808.9	764.1	703.7	669.3	662.0
37.5°	770.4	718.3	665.1	631.7	627.6
40°	724.5	677.6	624.4	599.4	593.2
42.5°	679.7	632.8	582.7	560.8	553.5
45°	636.9	587.9	546.2	525.4	519.1
47.5°	592.1	547.3	507.7	491.0	486.8
50°	545.2	505.6	469.1	453.5	448.3
52.5°	503.5	462.9	432.6	418.0	411.8
55°	458.7	424.3	395.1	382.6	378.4
57.5°	413.9	385.7	357.6	346.1	339.8
60°	374.2	346.1	323.2	309.6	305.4
62.5°	333.6	309.6	287.7	275.2	270.0
65°	292.9	273.1	252.3	236.6	231.4
67.5°	255.4	233.5	216.8	203.3	198.1
70°	215.8	200.2	183.5	171.0	165.8
72.5°	179.3	167.8	153.2	139.7	134.5
75°	147.0	135.5	124.1	109.5	102.2
77.5°	114.7	107.4	95.9	83.4	83.4
80°	84.4	80.3	67.8	65.7	64.6
82.5°	58.4	56.3	49.0	48.0	48.0
85°	34.4	32.3	32.3	32.3	32.3
87.5°	14.6	15.6	16.7	16.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)