

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: P295651

Luminaire Tested: **14RLN-LD5-31-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295651
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-LD5-31-UNV-L92765-W2A1-U-5000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2884.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

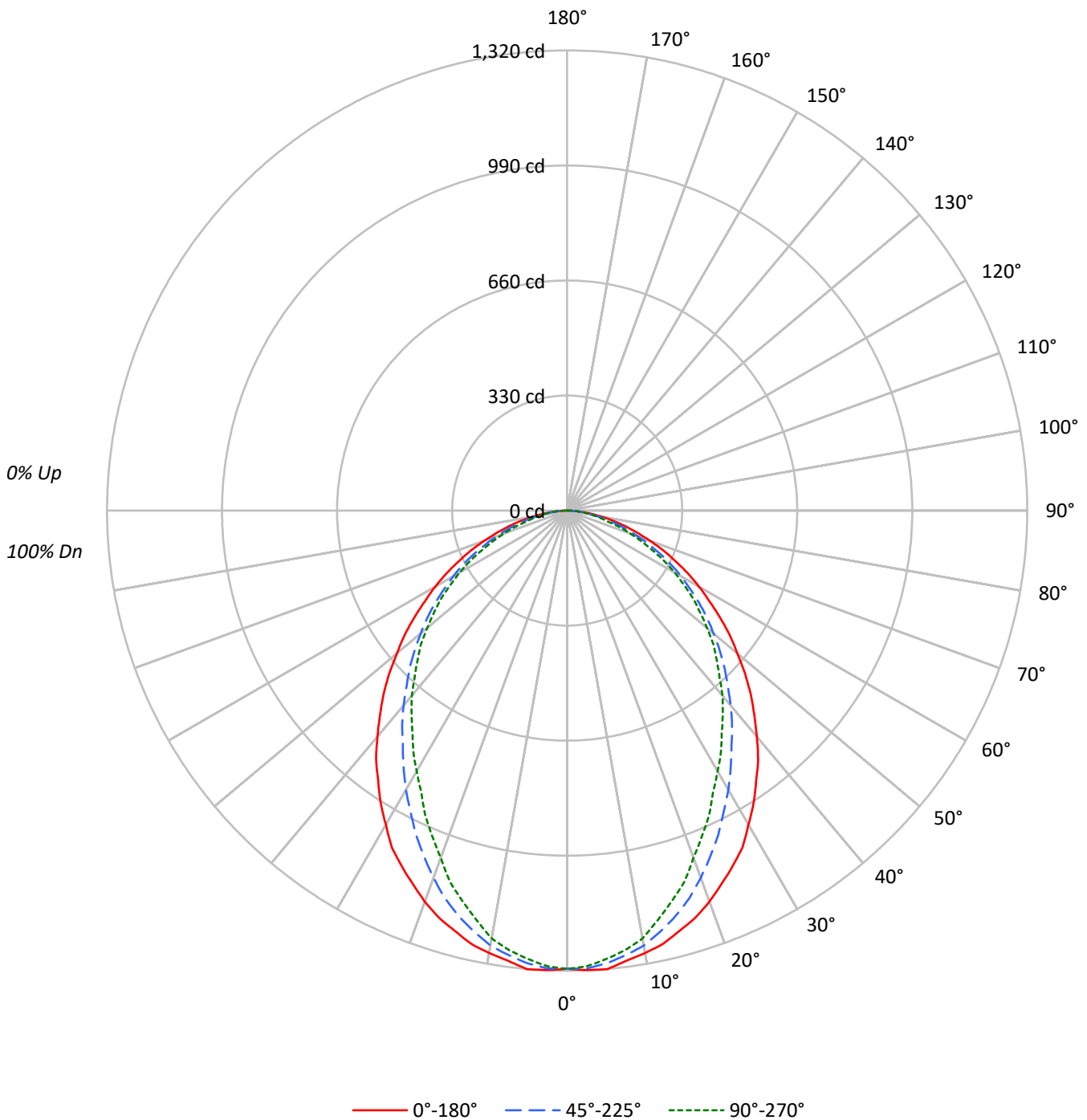
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295651

CATALOG NUMBER: 14RLN-LD5-31-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P295651

CATALOG NUMBER: 14RLN-LD5-31-UNV-L92765-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	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					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°	3537	3537	3537
5°	3567	3521	3488
10°	3522	3462	3405
15°	3475	3353	3231
20°	3419	3209	3035
25°	3339	3045	2861
30°	3232	2873	2684
35°	3105	2701	2541
40°	2974	2563	2435
45°	2833	2429	2309
50°	2667	2295	2193
55°	2515	2166	2075
60°	2354	2032	1921
65°	2180	1877	1722
70°	1984	1687	1524
75°	1786	1508	1241
80°	1530	1227	1170
85°	1241	1167	1167



TEST NUMBER: P295651

CATALOG NUMBER: 14RLN-LD5-31-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	4.3
10°-20°	337.8	11.7
20°-30°	474.1	16.4
30°-40°	525.8	18.2
40°-50°	504.8	17.5
50°-60°	423.0	14.7
60°-70°	297.0	10.3
70°-80°	155.1	5.4
80°-90°	43.4	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°	934.9	32.4
0°-40°	1460.7	50.6
0°-60°	2388.6	82.8
0°-90°	2884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1320	1303	1303	1295	1291	125
15°	1247	1226	1204	1172	1160	352
25°	1124	1084	1026	976	964	517
35°	945	893	822	782	774	592
45°	744	687	638	614	607	573
55°	536	496	462	447	442	479
65°	342	319	295	276	270	340
75°	172	158	145	128	119	182
85°	40	38	38	38	38	48
90°	0	0	0	0	0	



TEST NUMBER: P295651

CATALOG NUMBER: 14RLN-LD5-31-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.4	1314.4	1314.4	1314.4	1314.4
2.5°	1319.3	1312.0	1314.4	1314.4	1308.3
5°	1320.5	1303.4	1303.4	1294.9	1291.3
7.5°	1302.2	1288.8	1286.4	1275.4	1271.8
10°	1288.8	1275.4	1266.9	1252.3	1246.2
12.5°	1273.0	1252.3	1236.4	1212.1	1202.3
15°	1247.4	1225.5	1203.6	1171.9	1159.7
17.5°	1224.3	1198.7	1165.8	1130.5	1117.1
20°	1193.8	1163.4	1120.7	1072.0	1059.8
22.5°	1158.5	1123.2	1073.2	1020.8	1011.1
25°	1124.4	1084.2	1025.7	975.8	963.6
27.5°	1089.0	1040.3	973.3	919.7	907.5
30°	1040.3	990.4	924.6	872.2	863.7
32.5°	995.2	945.3	873.4	830.8	821.1
35°	945.3	892.9	822.3	782.1	773.5
37.5°	900.2	839.3	777.2	738.2	733.3
40°	846.6	791.8	729.7	700.5	693.1
42.5°	794.3	739.4	681.0	655.4	646.9
45°	744.3	687.1	638.3	614.0	606.7
47.5°	691.9	639.5	593.3	573.8	568.9
50°	637.1	590.8	548.2	529.9	523.8
52.5°	588.4	540.9	505.5	488.5	481.2
55°	536.0	495.8	461.7	447.1	442.2
57.5°	483.6	450.7	417.8	404.4	397.1
60°	437.3	404.4	377.6	361.8	356.9
62.5°	389.8	361.8	336.2	321.6	315.5
65°	342.3	319.2	294.8	276.5	270.4
67.5°	298.5	272.9	253.4	237.5	231.5
70°	252.2	233.9	214.4	199.8	193.7
72.5°	209.5	196.1	179.1	163.2	157.1
75°	171.8	158.4	145.0	127.9	119.4
77.5°	134.0	125.5	112.1	97.5	97.5
80°	98.7	93.8	79.2	76.7	75.5
82.5°	68.2	65.8	57.3	56.0	56.0
85°	40.2	37.8	37.8	37.8	37.8
87.5°	17.1	18.3	19.5	19.5	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)