

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: P295646

Luminaire Tested: **14RLN-LD5-31-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295646
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-2700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2445.0 lumens
Efficiency: N/A
Efficacy: 86.8 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

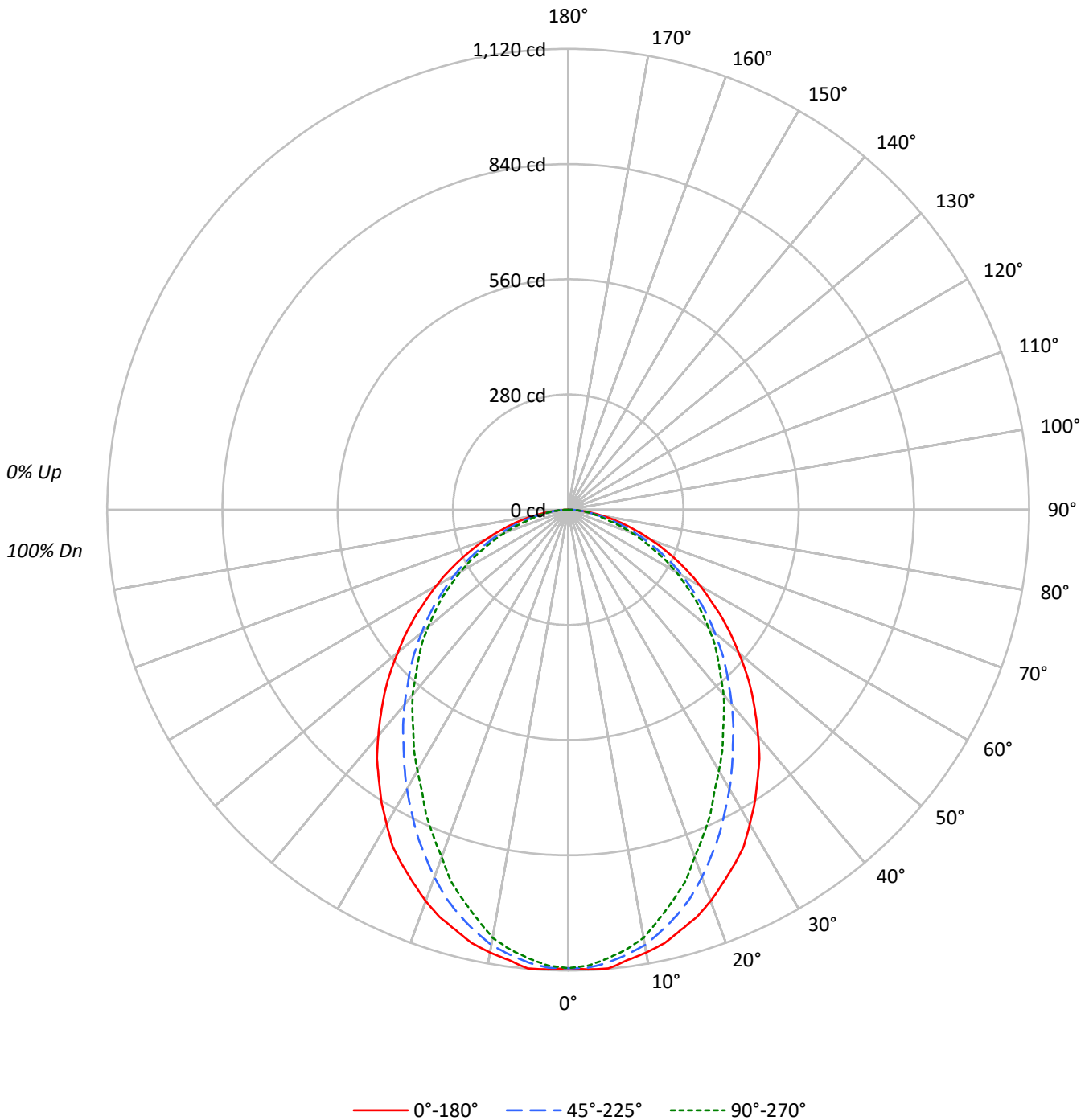
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	2999	2999	2999
5°	3024	2985	2957
10°	2986	2935	2887
15°	2946	2843	2739
20°	2898	2721	2573
25°	2830	2582	2426
30°	2741	2436	2275
35°	2633	2290	2154
40°	2522	2173	2064
45°	2401	2060	1957
50°	2261	1945	1859
55°	2132	1836	1759
60°	1996	1723	1629
65°	1848	1591	1460
70°	1682	1430	1292
75°	1514	1278	1052
80°	1297	1040	992
85°	1053	988	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	4.3
10°-20°	286.4	11.7
20°-30°	401.9	16.4
30°-40°	445.8	18.2
40°-50°	427.9	17.5
50°-60°	358.6	14.7
60°-70°	251.7	10.3
70°-80°	131.5	5.4
80°-90°	36.8	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°	792.6	32.4
0°-40°	1238.4	50.7
0°-60°	2025.0	82.8
0°-90°	2445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1120	1105	1105	1098	1095	106
15°	1058	1039	1020	994	983	298
25°	953	919	870	827	817	439
35°	801	757	697	663	656	502
45°	631	582	541	520	514	486
55°	454	420	391	379	375	406
65°	290	271	250	234	229	288
75°	146	134	123	108	101	154
85°	34	32	32	32	32	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.3	1114.3	1114.3	1114.3	1114.3
2.5°	1118.5	1112.3	1114.3	1114.3	1109.2
5°	1119.5	1105.0	1105.0	1097.8	1094.7
7.5°	1104.0	1092.6	1090.6	1081.3	1078.2
10°	1092.6	1081.3	1074.1	1061.7	1056.5
12.5°	1079.2	1061.7	1048.2	1027.6	1019.3
15°	1057.5	1038.9	1020.4	993.5	983.2
17.5°	1037.9	1016.2	988.3	958.4	947.0
20°	1012.1	986.3	950.1	908.8	898.5
22.5°	982.1	952.2	909.8	865.4	857.2
25°	953.2	919.1	869.6	827.2	816.9
27.5°	923.3	882.0	825.2	779.7	769.4
30°	882.0	839.6	783.9	739.4	732.2
32.5°	843.8	801.4	740.5	704.3	696.1
35°	801.4	757.0	697.1	663.0	655.8
37.5°	763.2	711.6	658.9	625.8	621.7
40°	717.8	671.3	618.6	593.8	587.6
42.5°	673.4	626.9	577.3	555.6	548.4
45°	631.0	582.5	541.2	520.5	514.3
47.5°	586.6	542.2	502.9	486.4	482.3
50°	540.1	500.9	464.7	449.2	444.1
52.5°	498.8	458.5	428.6	414.1	407.9
55°	454.4	420.3	391.4	379.0	374.9
57.5°	410.0	382.1	354.2	342.9	336.7
60°	370.8	342.9	320.2	306.7	302.6
62.5°	330.5	306.7	285.0	272.6	267.5
65°	290.2	270.6	249.9	234.4	229.3
67.5°	253.0	231.3	214.8	201.4	196.2
70°	213.8	198.3	181.8	169.4	164.2
72.5°	177.6	166.3	151.8	138.4	133.2
75°	145.6	134.3	122.9	108.4	101.2
77.5°	113.6	106.4	95.0	82.6	82.6
80°	83.7	79.5	67.1	65.1	64.0
82.5°	57.8	55.8	48.5	47.5	47.5
85°	34.1	32.0	32.0	32.0	32.0
87.5°	14.5	15.5	16.5	16.5	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)