

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: P295793

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295793
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-LD5-31-RDP-UNV-L92765-W2A1-U-5700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2495.0 lumens
Efficiency: N/A
Efficacy: 85.7 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

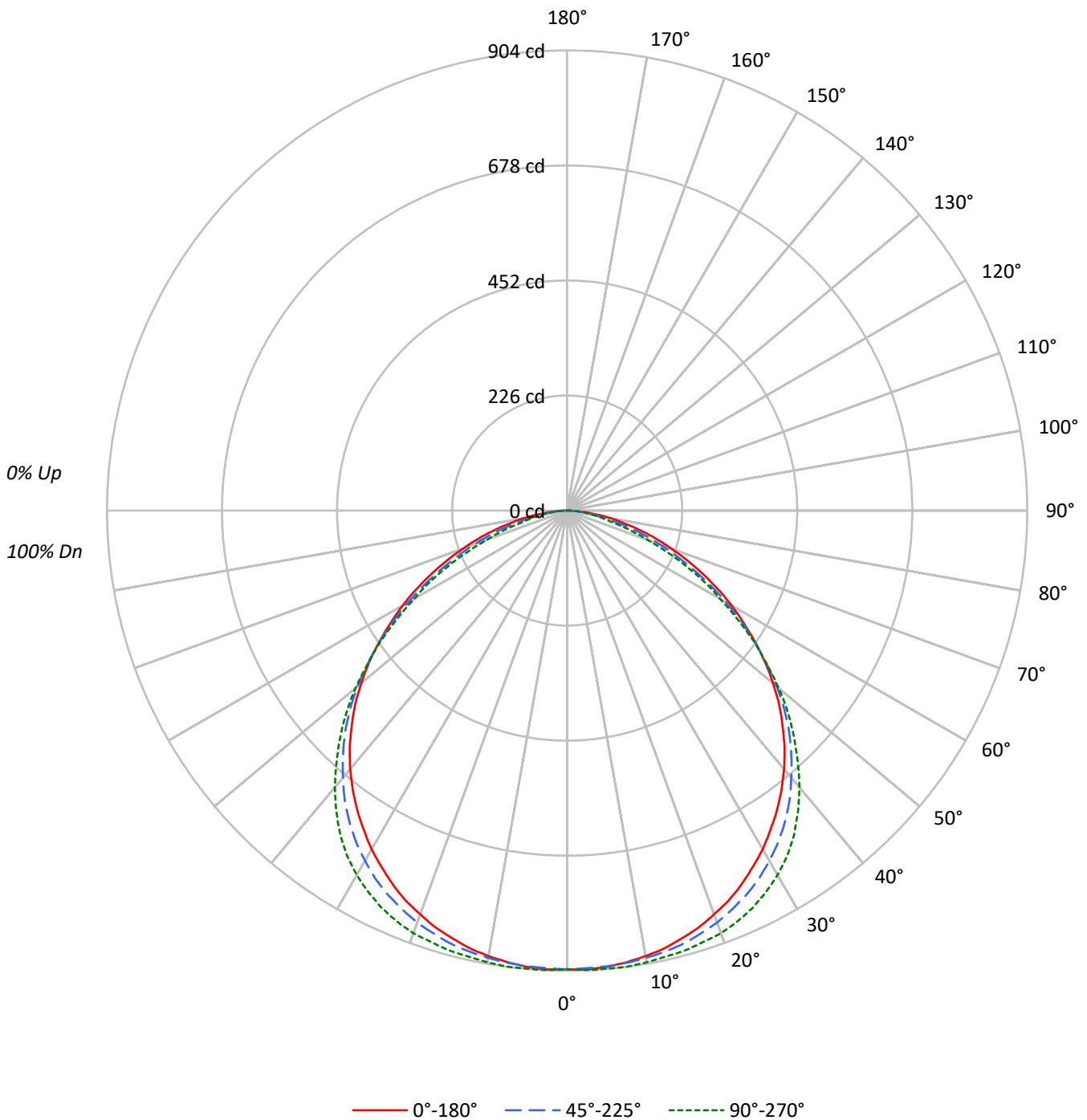
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2425	2425	2425
5°	2431	2427	2441
10°	2428	2438	2462
15°	2424	2455	2493
20°	2417	2467	2531
25°	2407	2473	2558
30°	2388	2468	2569
35°	2361	2451	2553
40°	2329	2408	2495
45°	2278	2349	2401
50°	2210	2252	2273
55°	2116	2111	2099
60°	2008	1941	1868
65°	1870	1736	1642
70°	1707	1521	1327
75°	1534	1263	992
80°	1364	922	865
85°	1071	766	766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.4
10°-20°	249.3	10.0
20°-30°	384.7	15.4
30°-40°	466.6	18.7
40°-50°	473.7	19.0
50°-60°	400.7	16.1
60°-70°	271.1	10.9
70°-80°	131.1	5.3
80°-90°	32.0	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°	719.8	28.8
0°-40°	1186.3	47.5
0°-60°	2060.8	82.6
0°-90°	2495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	900	900	899	902	904	86
15°	870	875	881	891	895	246
25°	811	817	833	854	861	373
35°	719	726	746	770	777	449
45°	599	600	617	630	631	462
55°	451	447	450	450	447	403
65°	294	281	273	262	258	291
75°	148	136	122	105	95	157
85°	35	27	25	25	25	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	901.0	901.0	901.0	901.0	901.0
2.5°	902.3	902.3	899.8	902.3	903.5
5°	899.8	899.8	898.6	902.3	903.5
7.5°	894.8	896.1	896.1	901.0	903.5
10°	888.6	891.1	892.4	899.8	901.0
12.5°	881.2	883.7	887.4	896.1	897.3
15°	870.1	875.0	881.2	891.1	894.8
17.5°	858.9	863.9	871.3	884.9	888.6
20°	844.0	850.2	861.4	877.5	883.7
22.5°	829.2	834.1	847.7	867.6	873.8
25°	810.6	816.8	832.9	853.9	861.4
27.5°	789.5	798.2	815.5	837.8	845.3
30°	768.4	775.9	794.4	819.2	826.7
32.5°	743.6	751.1	772.1	795.7	804.4
35°	718.8	726.3	746.1	769.7	777.1
37.5°	691.6	696.5	717.6	737.4	744.9
40°	663.1	666.8	685.4	705.2	710.2
42.5°	632.1	634.6	651.9	669.3	670.5
45°	598.6	599.9	617.2	629.6	630.8
47.5°	565.2	563.9	578.8	587.5	588.7
50°	528.0	528.0	537.9	542.9	542.9
52.5°	490.8	488.3	493.3	497.0	493.3
55°	451.1	447.4	449.9	449.9	447.4
57.5°	411.5	404.0	405.3	402.8	396.6
60°	373.1	364.4	360.7	352.0	347.0
62.5°	333.4	323.5	316.0	306.1	304.9
65°	293.7	281.3	272.7	261.5	257.8
67.5°	255.3	244.2	231.8	219.4	211.9
70°	216.9	204.5	193.3	177.2	168.6
72.5°	182.2	171.0	157.4	138.8	132.6
75°	147.5	136.3	121.5	105.3	95.4
77.5°	114.0	105.3	89.2	75.6	74.4
80°	88.0	78.1	59.5	55.8	55.8
82.5°	57.0	50.8	42.1	39.7	39.7
85°	34.7	27.3	24.8	24.8	24.8
87.5°	13.6	12.4	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)