

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: P295699

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295699
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-LD5-23-RDP-UNV-L82765-W2A1-U-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1896.0 lumens
Efficiency: N/A
Efficacy: 92.7 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

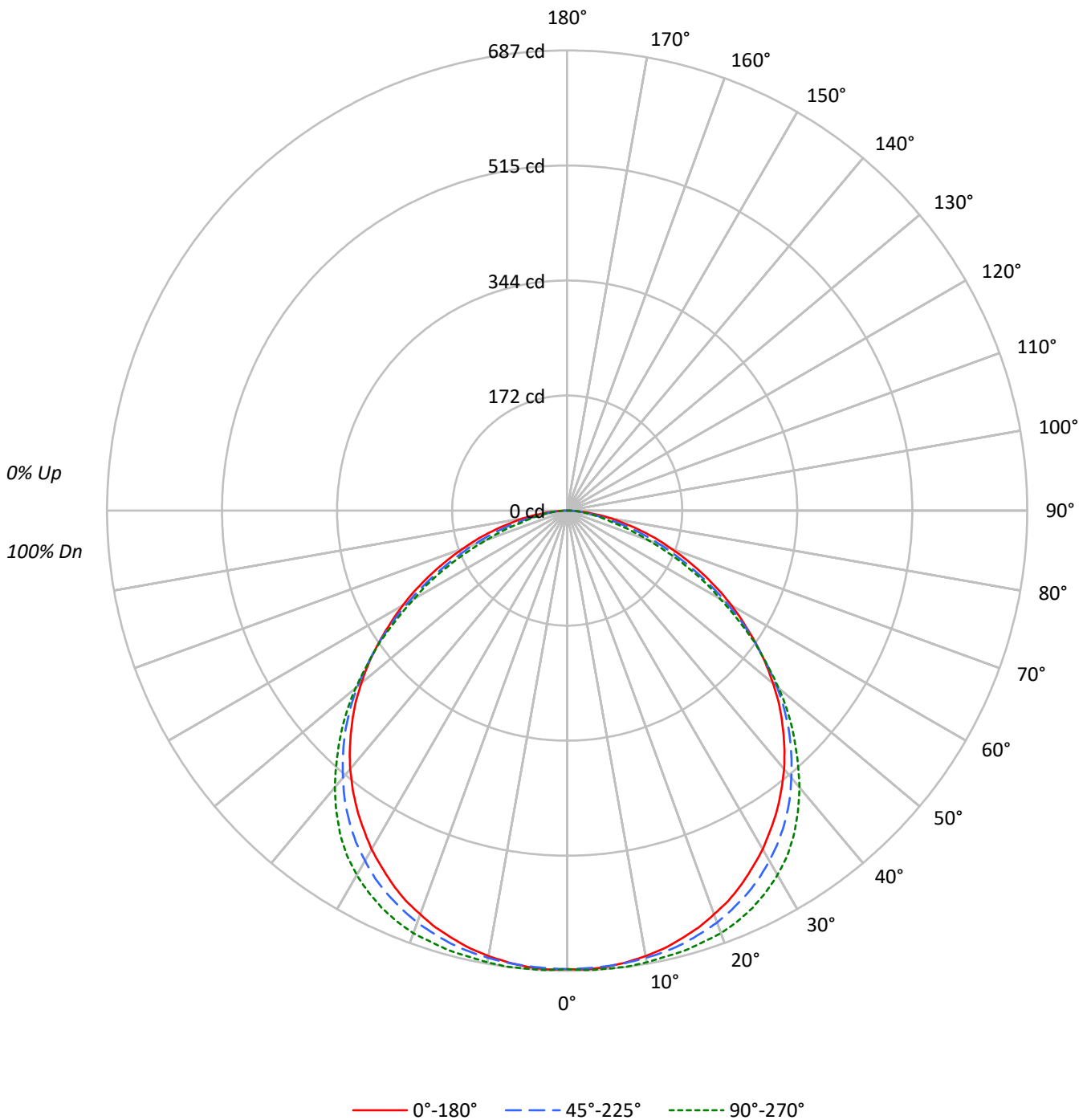
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1843	1843	1843
5°	1847	1844	1855
10°	1845	1853	1871
15°	1842	1865	1894
20°	1837	1875	1923
25°	1829	1879	1944
30°	1814	1876	1952
35°	1795	1863	1940
40°	1770	1829	1896
45°	1731	1785	1824
50°	1680	1711	1727
55°	1608	1604	1595
60°	1526	1475	1419
65°	1421	1319	1247
70°	1297	1156	1008
75°	1166	960	754
80°	1037	700	657
85°	815	580	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	3.4
10°-20°	189.4	10.0
20°-30°	292.3	15.4
30°-40°	354.6	18.7
40°-50°	360.0	19.0
50°-60°	304.5	16.1
60°-70°	206.0	10.9
70°-80°	99.6	5.3
80°-90°	24.3	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°	547.0	28.8
0°-40°	901.5	47.5
0°-60°	1566.0	82.6
0°-90°	1896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	684	684	683	686	687	65
15°	661	665	670	677	680	187
25°	616	621	633	649	655	284
35°	546	552	567	585	590	342
45°	455	456	469	478	479	351
55°	343	340	342	342	340	306
65°	223	214	207	199	196	221
75°	112	104	92	80	72	119
85°	26	21	19	19	19	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	684.7	684.7	684.7	684.7	684.7
2.5°	685.7	685.7	683.8	685.7	686.6
5°	683.8	683.8	682.8	685.7	686.6
7.5°	680.0	680.9	680.9	684.7	686.6
10°	675.3	677.2	678.1	683.8	684.7
12.5°	669.6	671.5	674.4	680.9	681.9
15°	661.2	664.9	669.6	677.2	680.0
17.5°	652.7	656.5	662.1	672.5	675.3
20°	641.4	646.1	654.6	666.8	671.5
22.5°	630.1	633.9	644.2	659.3	664.0
25°	616.0	620.7	632.9	648.9	654.6
27.5°	599.9	606.5	619.7	636.7	642.3
30°	583.9	589.6	603.7	622.6	628.2
32.5°	565.1	570.8	586.8	604.7	611.3
35°	546.3	551.9	567.0	584.9	590.5
37.5°	525.5	529.3	545.3	560.4	566.0
40°	503.9	506.7	520.8	535.9	539.7
42.5°	480.3	482.2	495.4	508.6	509.5
45°	454.9	455.8	469.0	478.5	479.4
47.5°	429.5	428.5	439.8	446.4	447.4
50°	401.2	401.2	408.8	412.5	412.5
52.5°	373.0	371.1	374.9	377.7	374.9
55°	342.8	340.0	341.9	341.9	340.0
57.5°	312.7	307.0	308.0	306.1	301.4
60°	283.5	276.9	274.1	267.5	263.7
62.5°	253.4	245.8	240.2	232.6	231.7
65°	223.2	213.8	207.2	198.7	195.9
67.5°	194.0	185.5	176.1	166.7	161.1
70°	164.8	155.4	146.9	134.7	128.1
72.5°	138.4	130.0	119.6	105.5	100.8
75°	112.1	103.6	92.3	80.1	72.5
77.5°	86.6	80.1	67.8	57.5	56.5
80°	66.9	59.3	45.2	42.4	42.4
82.5°	43.3	38.6	32.0	30.1	30.1
85°	26.4	20.7	18.8	18.8	18.8
87.5°	10.4	9.4	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)