

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: P295673

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295673
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-L83050-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: 1897.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

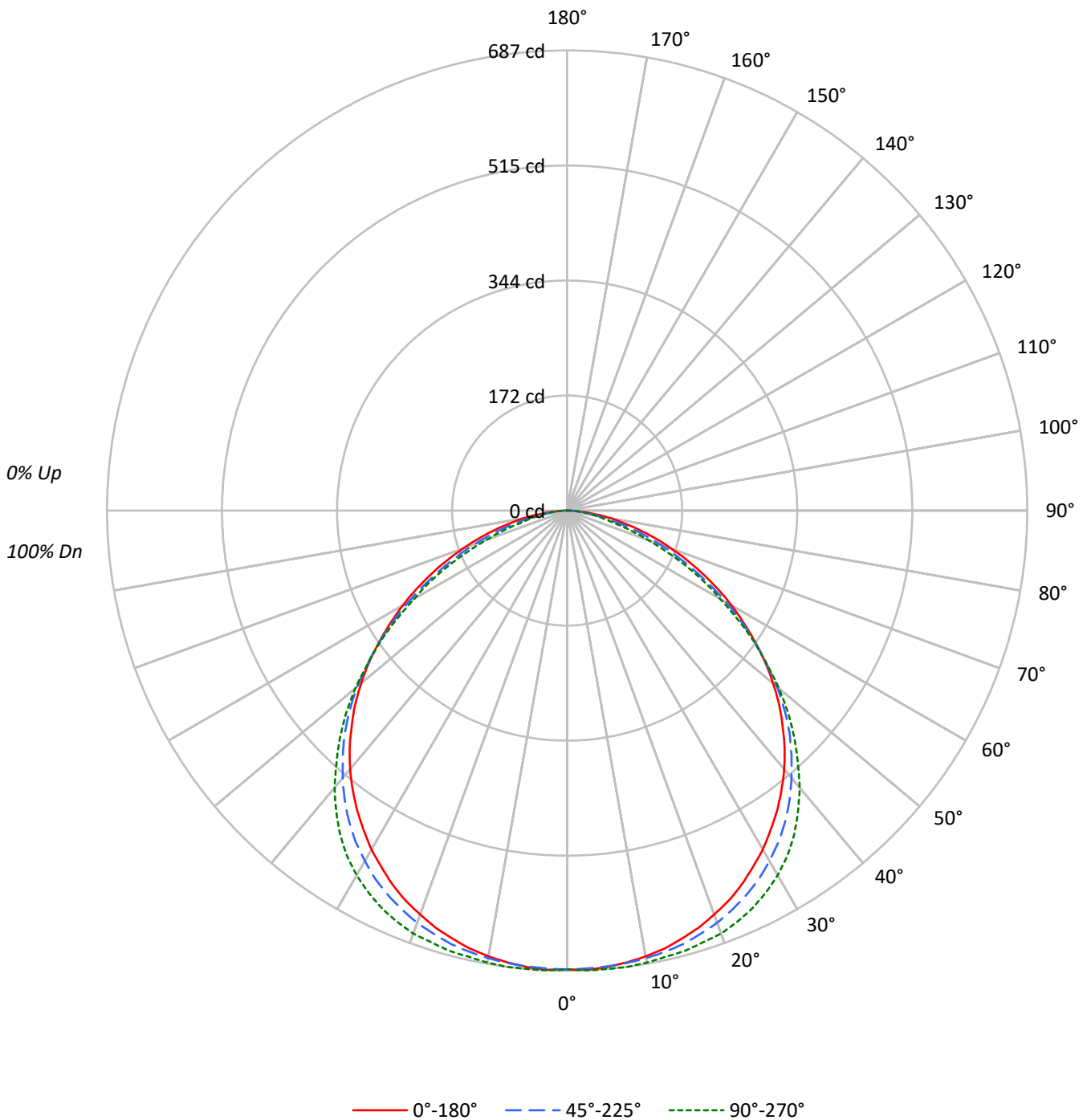
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1844	1844	1844
5°	1848	1845	1856
10°	1846	1854	1872
15°	1843	1867	1896
20°	1838	1875	1924
25°	1830	1880	1945
30°	1815	1877	1953
35°	1796	1864	1941
40°	1771	1831	1897
45°	1732	1786	1825
50°	1680	1712	1728
55°	1609	1605	1596
60°	1526	1476	1420
65°	1422	1320	1248
70°	1297	1157	1009
75°	1166	960	755
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°	189.5	10.0
20°-30°	292.5	15.4
30°-40°	354.8	18.7
40°-50°	360.2	19.0
50°-60°	304.7	16.1
60°-70°	206.1	10.9
70°-80°	99.7	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°	547.2	28.8
0°-40°	902.0	47.5
0°-60°	1566.9	82.6
0°-90°	1897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1897.0	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°	662	665	670	678	680	187
25°	616	621	633	649	655	284
35°	547	552	567	585	591	342
45°	455	456	469	479	480	351
55°	343	340	342	342	340	307
65°	223	214	207	199	196	221
75°	112	104	92	80	73	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°	685.1	685.1	685.1	685.1	685.1
2.5°	686.0	686.0	684.1	686.0	687.0
5°	684.1	684.1	683.2	686.0	687.0
7.5°	680.4	681.3	681.3	685.1	687.0
10°	675.7	677.5	678.5	684.1	685.1
12.5°	670.0	671.9	674.7	681.3	682.2
15°	661.5	665.3	670.0	677.5	680.4
17.5°	653.0	656.8	662.5	672.8	675.7
20°	641.7	646.4	654.9	667.2	671.9
22.5°	630.4	634.2	644.6	659.6	664.3
25°	616.3	621.0	633.2	649.3	654.9
27.5°	600.3	606.9	620.1	637.0	642.7
30°	584.2	589.9	604.0	622.9	628.5
32.5°	565.4	571.1	587.1	605.0	611.6
35°	546.6	552.2	567.3	585.2	590.8
37.5°	525.8	529.6	545.6	560.7	566.3
40°	504.1	507.0	521.1	536.2	540.0
42.5°	480.6	482.5	495.7	508.9	509.8
45°	455.1	456.1	469.3	478.7	479.6
47.5°	429.7	428.8	440.1	446.7	447.6
50°	401.4	401.4	409.0	412.7	412.7
52.5°	373.2	371.3	375.0	377.9	375.0
55°	343.0	340.2	342.1	342.1	340.2
57.5°	312.9	307.2	308.1	306.3	301.5
60°	283.6	277.0	274.2	267.6	263.9
62.5°	253.5	245.9	240.3	232.8	231.8
65°	223.3	213.9	207.3	198.8	196.0
67.5°	194.1	185.6	176.2	166.8	161.1
70°	164.9	155.5	147.0	134.8	128.2
72.5°	138.5	130.0	119.7	105.5	100.8
75°	112.1	103.7	92.3	80.1	72.6
77.5°	86.7	80.1	67.8	57.5	56.5
80°	66.9	59.4	45.2	42.4	42.4
82.5°	43.3	38.6	32.0	30.2	30.2
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)