

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: P295773

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295773
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-L92765-W2A1-U-5000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1856.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

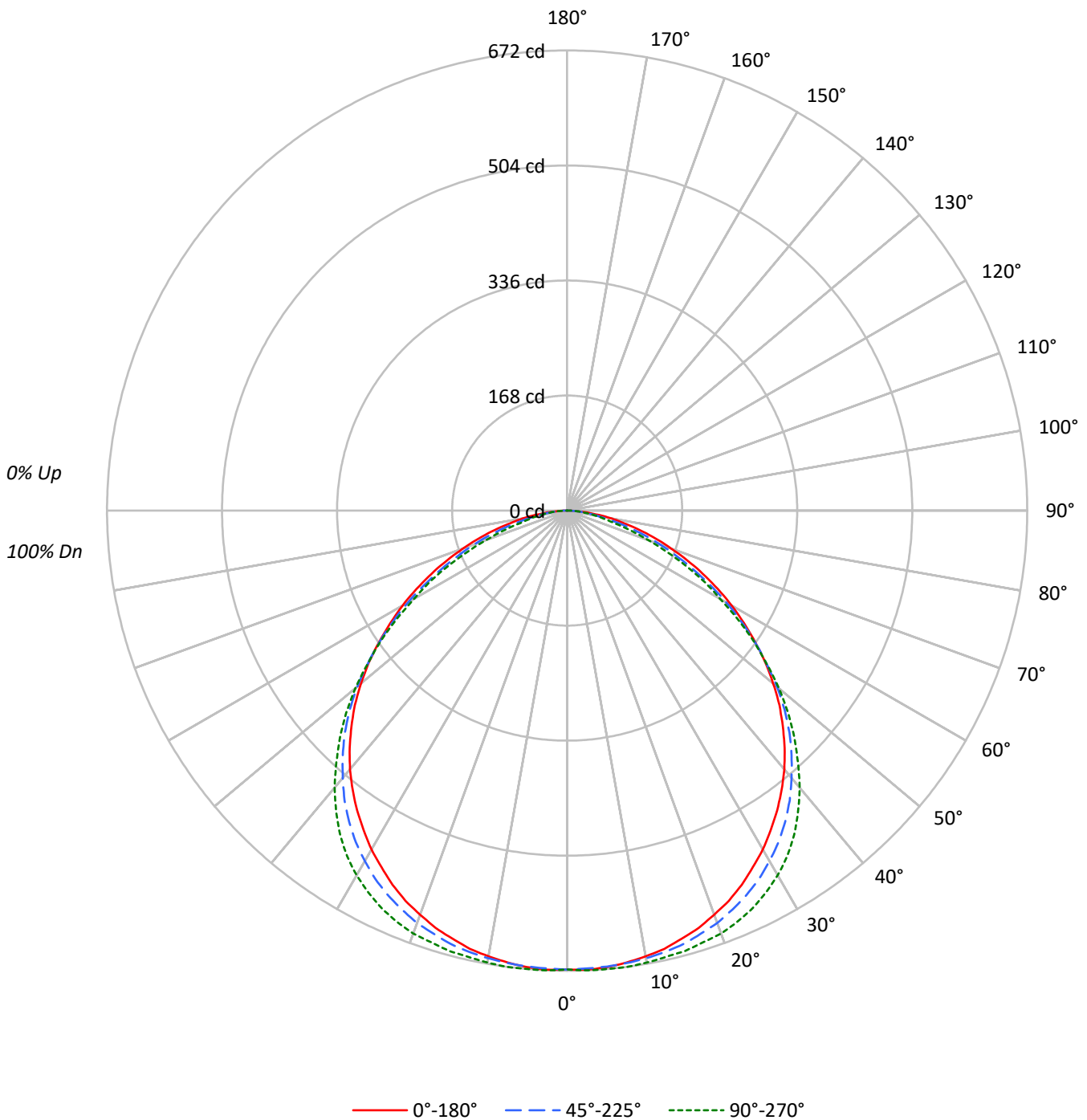
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1804	1804	1804
5°	1808	1806	1816
10°	1806	1814	1832
15°	1803	1826	1855
20°	1798	1835	1883
25°	1790	1840	1903
30°	1776	1836	1911
35°	1757	1823	1899
40°	1733	1791	1856
45°	1695	1747	1786
50°	1644	1675	1690
55°	1574	1570	1561
60°	1493	1444	1390
65°	1391	1291	1221
70°	1269	1131	987
75°	1141	940	738
80°	1015	687	643
85°	797	568	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	3.4
10°-20°	185.4	10.0
20°-30°	286.2	15.4
30°-40°	347.1	18.7
40°-50°	352.4	19.0
50°-60°	298.1	16.1
60°-70°	201.7	10.9
70°-80°	97.5	5.3
80°-90°	23.8	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°	535.4	28.8
0°-40°	882.5	47.5
0°-60°	1533.0	82.6
0°-90°	1856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	669	669	668	671	672	64
15°	647	651	656	663	666	183
25°	603	608	620	635	641	278
35°	535	540	555	572	578	334
45°	445	446	459	468	469	343
55°	336	333	335	335	333	300
65°	218	209	203	194	192	217
75°	110	101	90	78	71	117
85°	26	20	18	18	18	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	670.3	670.3	670.3	670.3	670.3
2.5°	671.2	671.2	669.3	671.2	672.1
5°	669.3	669.3	668.4	671.2	672.1
7.5°	665.7	666.6	666.6	670.3	672.1
10°	661.0	662.9	663.8	669.3	670.3
12.5°	655.5	657.4	660.1	666.6	667.5
15°	647.2	650.9	655.5	662.9	665.7
17.5°	638.9	642.6	648.1	658.3	661.0
20°	627.9	632.5	640.8	652.8	657.4
22.5°	616.8	620.5	630.6	645.4	650.0
25°	603.0	607.6	619.6	635.2	640.8
27.5°	587.3	593.7	606.7	623.2	628.8
30°	571.6	577.2	591.0	609.4	615.0
32.5°	553.2	558.7	574.4	591.9	598.4
35°	534.7	540.3	555.0	572.5	578.1
37.5°	514.5	518.1	533.8	548.6	554.1
40°	493.3	496.0	509.8	524.6	528.3
42.5°	470.2	472.0	485.0	497.9	498.8
45°	445.3	446.2	459.1	468.4	469.3
47.5°	420.4	419.5	430.6	437.0	437.9
50°	392.8	392.8	400.1	403.8	403.8
52.5°	365.1	363.3	366.9	369.7	366.9
55°	335.6	332.8	334.7	334.7	332.8
57.5°	306.1	300.6	301.5	299.6	295.0
60°	277.5	271.1	268.3	261.8	258.2
62.5°	248.0	240.6	235.1	227.7	226.8
65°	218.5	209.3	202.8	194.5	191.8
67.5°	189.9	181.6	172.4	163.2	157.7
70°	161.3	152.1	143.8	131.8	125.4
72.5°	135.5	127.2	117.1	103.3	98.7
75°	109.7	101.4	90.4	78.4	71.0
77.5°	84.8	78.4	66.4	56.2	55.3
80°	65.5	58.1	44.3	41.5	41.5
82.5°	42.4	37.8	31.3	29.5	29.5
85°	25.8	20.3	18.4	18.4	18.4
87.5°	10.1	9.2	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)