

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: P295775

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295775
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-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: 1893.0 lumens
Efficiency: N/A
Efficacy: 88.9 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

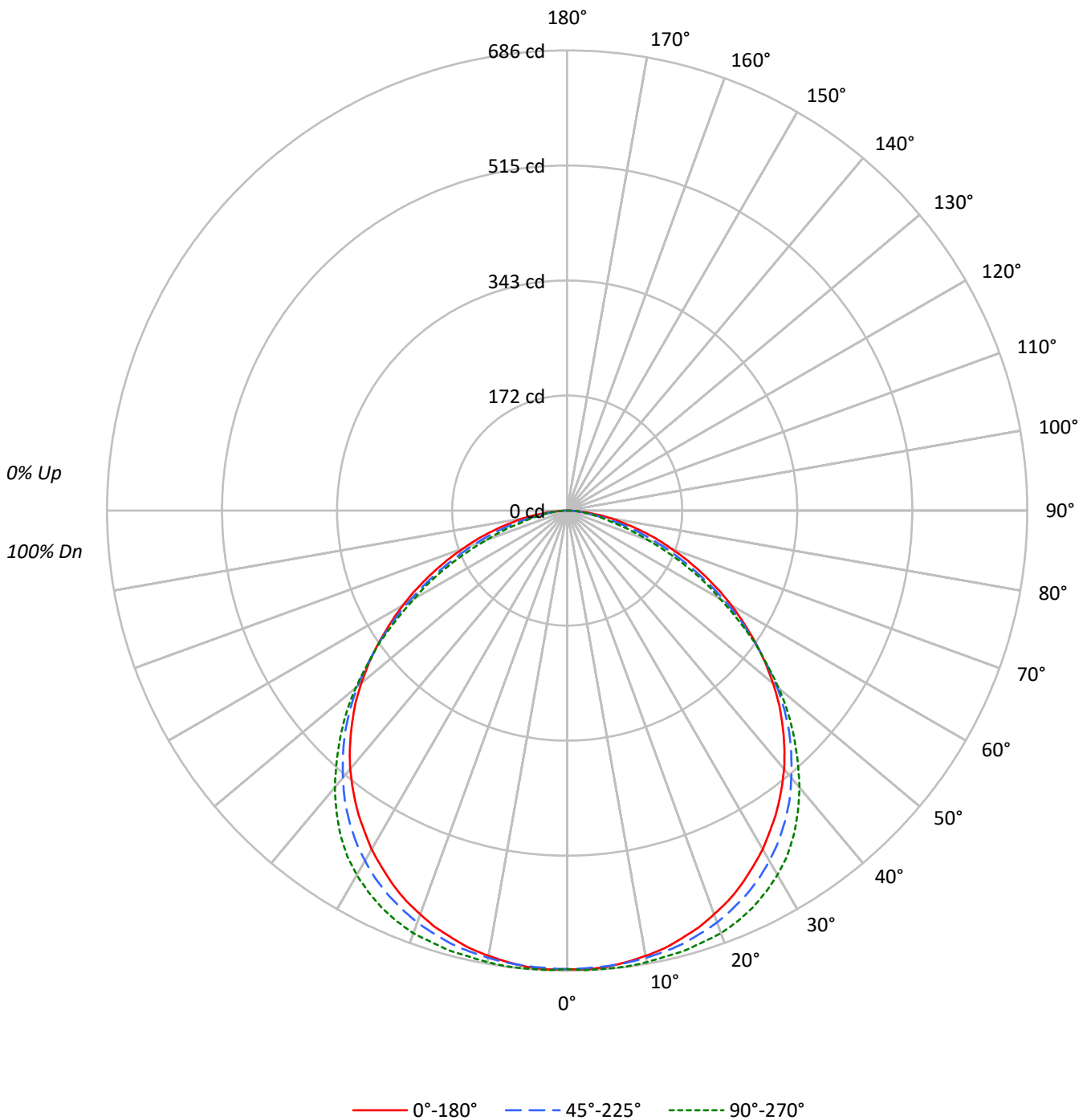
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1840	1840	1840
5°	1844	1842	1852
10°	1842	1850	1868
15°	1839	1863	1891
20°	1834	1871	1920
25°	1826	1876	1940
30°	1812	1873	1949
35°	1792	1860	1937
40°	1767	1827	1893
45°	1729	1782	1821
50°	1677	1708	1724
55°	1606	1601	1593
60°	1523	1473	1417
65°	1419	1317	1245
70°	1295	1154	1006
75°	1163	959	753
80°	1035	699	656
85°	812	580	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	3.4
10°-20°	189.1	10.0
20°-30°	291.9	15.4
30°-40°	354.0	18.7
40°-50°	359.4	19.0
50°-60°	304.1	16.1
60°-70°	205.7	10.9
70°-80°	99.5	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°	546.1	28.8
0°-40°	900.1	47.5
0°-60°	1563.6	82.6
0°-90°	1893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	683	683	682	685	686	65
15°	660	664	669	676	679	186
25°	615	620	632	648	654	283
35°	545	551	566	584	590	341
45°	454	455	468	478	479	350
55°	342	340	341	341	340	306
65°	223	214	207	198	196	221
75°	112	103	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°	683.6	683.6	683.6	683.6	683.6
2.5°	684.6	684.6	682.7	684.6	685.5
5°	682.7	682.7	681.8	684.6	685.5
7.5°	678.9	679.9	679.9	683.6	685.5
10°	674.2	676.1	677.0	682.7	683.6
12.5°	668.6	670.5	673.3	679.9	680.8
15°	660.1	663.9	668.6	676.1	678.9
17.5°	651.7	655.4	661.1	671.4	674.2
20°	640.4	645.1	653.5	665.8	670.5
22.5°	629.1	632.9	643.2	658.2	662.9
25°	615.0	619.7	631.9	647.9	653.5
27.5°	599.0	605.6	618.7	635.7	641.3
30°	583.0	588.7	602.8	621.6	627.2
32.5°	564.2	569.8	585.8	603.7	610.3
35°	545.4	551.0	566.1	584.0	589.6
37.5°	524.7	528.5	544.5	559.5	565.1
40°	503.1	505.9	520.0	535.1	538.8
42.5°	479.6	481.5	494.6	507.8	508.7
45°	454.2	455.1	468.3	477.7	478.6
47.5°	428.8	427.9	439.1	445.7	446.7
50°	400.6	400.6	408.1	411.9	411.9
52.5°	372.4	370.5	374.3	377.1	374.3
55°	342.3	339.5	341.3	341.3	339.5
57.5°	312.2	306.6	307.5	305.6	300.9
60°	283.0	276.5	273.6	267.1	263.3
62.5°	253.0	245.4	239.8	232.3	231.3
65°	222.9	213.5	206.9	198.4	195.6
67.5°	193.7	185.2	175.8	166.4	160.8
70°	164.6	155.2	146.7	134.5	127.9
72.5°	138.2	129.8	119.4	105.3	100.6
75°	111.9	103.4	92.2	79.9	72.4
77.5°	86.5	79.9	67.7	57.4	56.4
80°	66.8	59.2	45.1	42.3	42.3
82.5°	43.3	38.6	32.0	30.1	30.1
85°	26.3	20.7	18.8	18.8	18.8
87.5°	10.3	9.4	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)