

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: P295772

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295772
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-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1819.0 lumens
Efficiency: N/A
Efficacy: 86.5 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

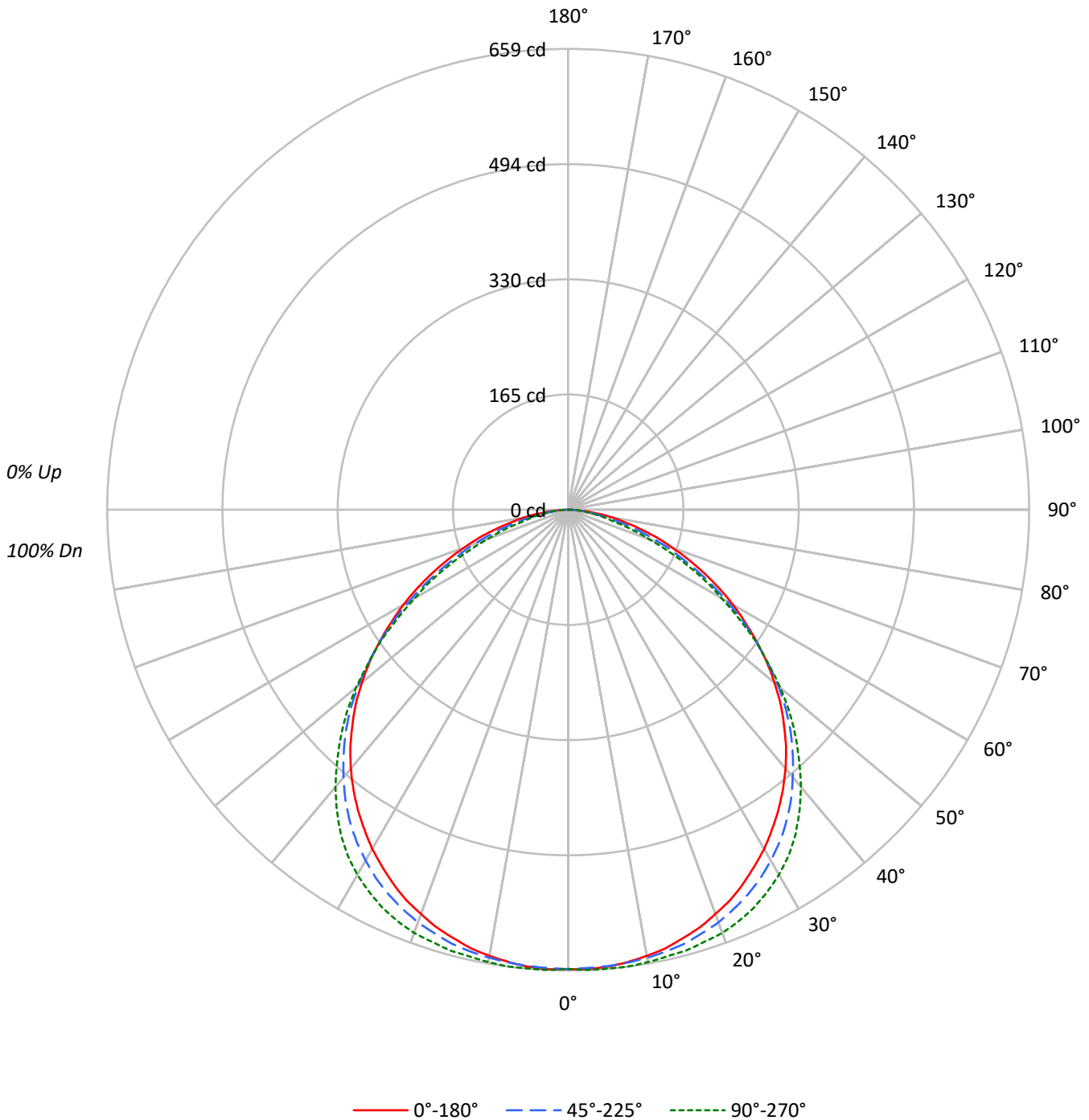
Input Watts (W): 21.018
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1768	1768	1768
5°	1772	1770	1779
10°	1770	1778	1795
15°	1767	1790	1818
20°	1762	1798	1845
25°	1754	1803	1865
30°	1741	1800	1873
35°	1722	1787	1861
40°	1698	1755	1819
45°	1661	1713	1750
50°	1611	1642	1657
55°	1543	1539	1530
60°	1464	1415	1362
65°	1364	1266	1196
70°	1244	1109	967
75°	1118	921	724
80°	995	673	631
85°	781	559	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	3.4
10°-20°	181.7	10.0
20°-30°	280.5	15.4
30°-40°	340.2	18.7
40°-50°	345.4	19.0
50°-60°	292.2	16.1
60°-70°	197.7	10.9
70°-80°	95.6	5.3
80°-90°	23.3	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°	524.7	28.8
0°-40°	864.9	47.5
0°-60°	1502.4	82.6
0°-90°	1819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	657	657	657	657	657	
5°	656	656	655	658	659	62
15°	634	638	642	650	652	179
25°	591	596	607	623	628	272
35°	524	530	544	561	566	328
45°	436	437	450	459	460	336
55°	329	326	328	328	326	294
65°	214	205	199	191	188	212
75°	108	99	89	77	70	115
85°	25	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°	656.9	656.9	656.9	656.9	656.9
2.5°	657.8	657.8	656.0	657.8	658.7
5°	656.0	656.0	655.1	657.8	658.7
7.5°	652.4	653.3	653.3	656.9	658.7
10°	647.9	649.7	650.6	656.0	656.9
12.5°	642.5	644.3	647.0	653.3	654.2
15°	634.3	637.9	642.5	649.7	652.4
17.5°	626.2	629.8	635.2	645.2	647.9
20°	615.3	619.9	628.0	639.7	644.3
22.5°	604.5	608.1	618.1	632.5	637.0
25°	590.9	595.5	607.2	622.6	628.0
27.5°	575.6	581.9	594.6	610.8	616.2
30°	560.2	565.6	579.2	597.3	602.7
32.5°	542.2	547.6	562.9	580.1	586.4
35°	524.1	529.5	544.0	561.1	566.5
37.5°	504.2	507.8	523.2	537.6	543.1
40°	483.4	486.1	499.7	514.1	517.8
42.5°	460.8	462.6	475.3	487.9	488.8
45°	436.4	437.3	450.0	459.0	459.9
47.5°	412.0	411.1	422.0	428.3	429.2
50°	384.9	384.9	392.2	395.8	395.8
52.5°	357.8	356.0	359.6	362.3	359.6
55°	328.9	326.2	328.0	328.0	326.2
57.5°	300.0	294.6	295.5	293.7	289.1
60°	272.0	265.7	262.9	256.6	253.0
62.5°	243.1	235.8	230.4	223.2	222.3
65°	214.2	205.1	198.8	190.7	187.9
67.5°	186.1	178.0	169.0	159.9	154.5
70°	158.1	149.1	141.0	129.2	122.9
72.5°	132.8	124.7	114.8	101.2	96.7
75°	107.5	99.4	88.6	76.8	69.6
77.5°	83.1	76.8	65.1	55.1	54.2
80°	64.2	56.9	43.4	40.7	40.7
82.5°	41.6	37.0	30.7	28.9	28.9
85°	25.3	19.9	18.1	18.1	18.1
87.5°	9.9	9.0	9.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)