

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: P295771

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295771  
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-4000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1773.0 lumens  
Efficiency: N/A  
Efficacy: 84.7 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

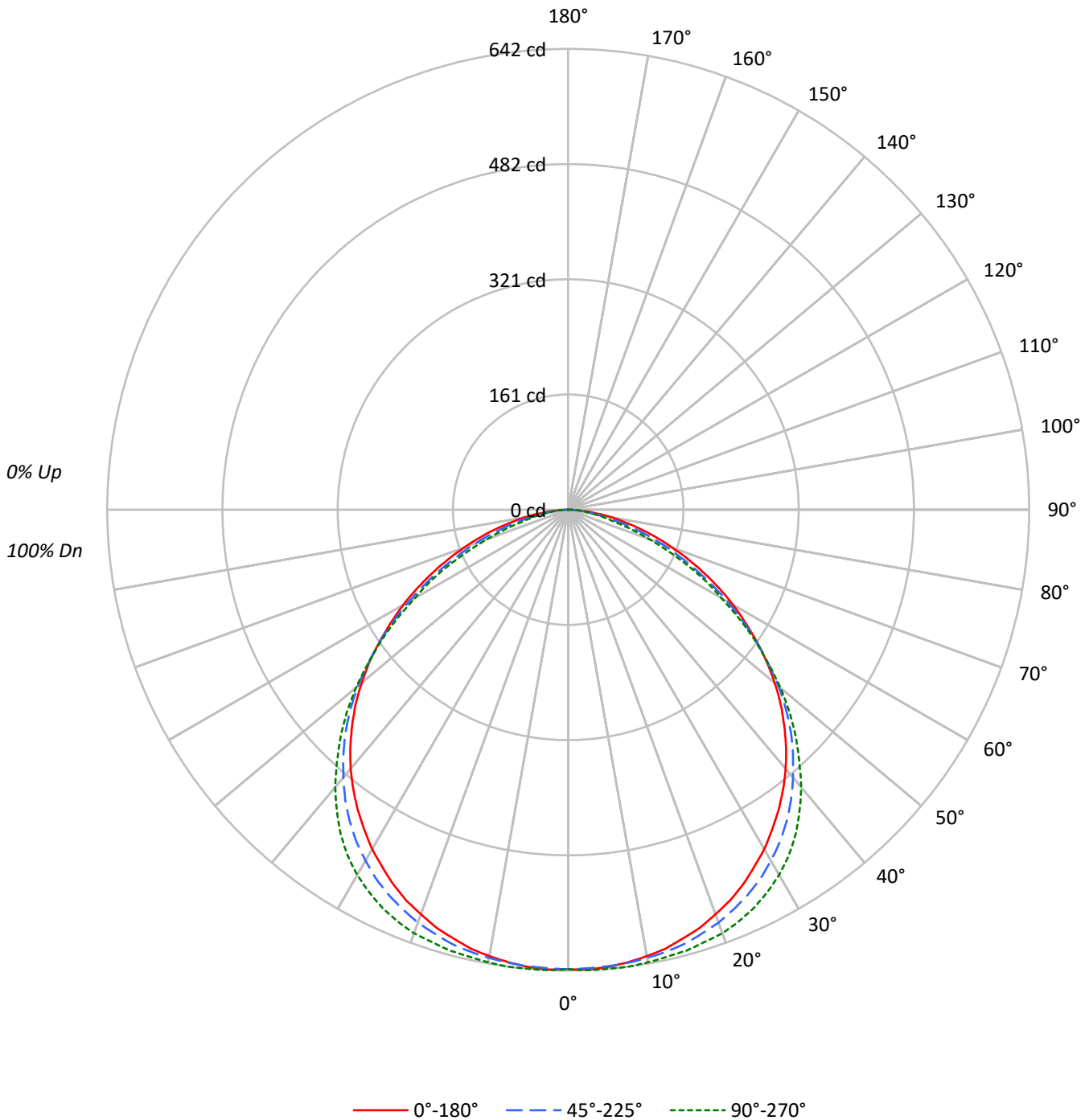
Input Watts (W): 20.925  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1723	1723	1723
5°	1727	1725	1734
10°	1726	1733	1750
15°	1723	1745	1772
20°	1718	1753	1798
25°	1710	1757	1817
30°	1697	1754	1826
35°	1678	1742	1814
40°	1655	1711	1773
45°	1619	1669	1706
50°	1571	1600	1615
55°	1504	1500	1491
60°	1427	1379	1327
65°	1329	1234	1167
70°	1212	1081	943
75°	1090	897	705
80°	969	656	614
85°	763	543	543



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.9	3.4
10°-20°	177.1	10.0
20°-30°	273.4	15.4
30°-40°	331.6	18.7
40°-50°	336.6	19.0
50°-60°	284.8	16.1
60°-70°	192.7	10.9
70°-80°	93.2	5.3
80°-90°	22.7	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°	511.5	28.8
0°-40°	843.0	47.5
0°-60°	1464.4	82.6
0°-90°	1773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	639	639	638	641	642	61
15°	618	622	626	633	636	175
25°	576	580	592	607	612	265
35°	511	516	530	547	552	319
45°	425	426	439	447	448	328
55°	321	318	320	320	318	287
65°	209	200	194	186	183	207
75°	105	97	86	75	68	112
85°	25	19	18	18	18	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	640.3	640.3	640.3	640.3	640.3
2.5°	641.2	641.2	639.4	641.2	642.1
5°	639.4	639.4	638.5	641.2	642.1
7.5°	635.9	636.8	636.8	640.3	642.1
10°	631.5	633.2	634.1	639.4	640.3
12.5°	626.2	628.0	630.6	636.8	637.7
15°	618.3	621.8	626.2	633.2	635.9
17.5°	610.4	613.9	619.2	628.8	631.5
20°	599.8	604.2	612.1	623.6	628.0
22.5°	589.2	592.7	602.4	616.5	620.9
25°	576.0	580.4	591.9	606.8	612.1
27.5°	561.0	567.2	579.5	595.4	600.7
30°	546.1	551.3	564.6	582.2	587.5
32.5°	528.4	533.7	548.7	565.4	571.6
35°	510.8	516.1	530.2	546.9	552.2
37.5°	491.5	495.0	509.9	524.0	529.3
40°	471.2	473.8	487.0	501.1	504.7
42.5°	449.2	450.9	463.3	475.6	476.5
45°	425.4	426.3	438.6	447.4	448.3
47.5°	401.6	400.7	411.3	417.5	418.3
50°	375.2	375.2	382.2	385.8	385.8
52.5°	348.8	347.0	350.5	353.2	350.5
55°	320.6	317.9	319.7	319.7	317.9
57.5°	292.4	287.1	288.0	286.2	281.8
60°	265.1	258.9	256.3	250.1	246.6
62.5°	236.9	229.9	224.6	217.5	216.7
65°	208.7	199.9	193.8	185.8	183.2
67.5°	181.4	173.5	164.7	155.9	150.6
70°	154.1	145.3	137.4	125.9	119.8
72.5°	129.5	121.5	111.9	98.6	94.2
75°	104.8	96.9	86.3	74.9	67.8
77.5°	81.0	74.9	63.4	53.7	52.8
80°	62.5	55.5	42.3	39.6	39.6
82.5°	40.5	36.1	29.9	28.2	28.2
85°	24.7	19.4	17.6	17.6	17.6
87.5°	9.7	8.8	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)