

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: P295777

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295777
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-LD5-26-RDP-UNV-L92765-W2A1-U-2700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1776.0 lumens
Efficiency: N/A
Efficacy: 74.9 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

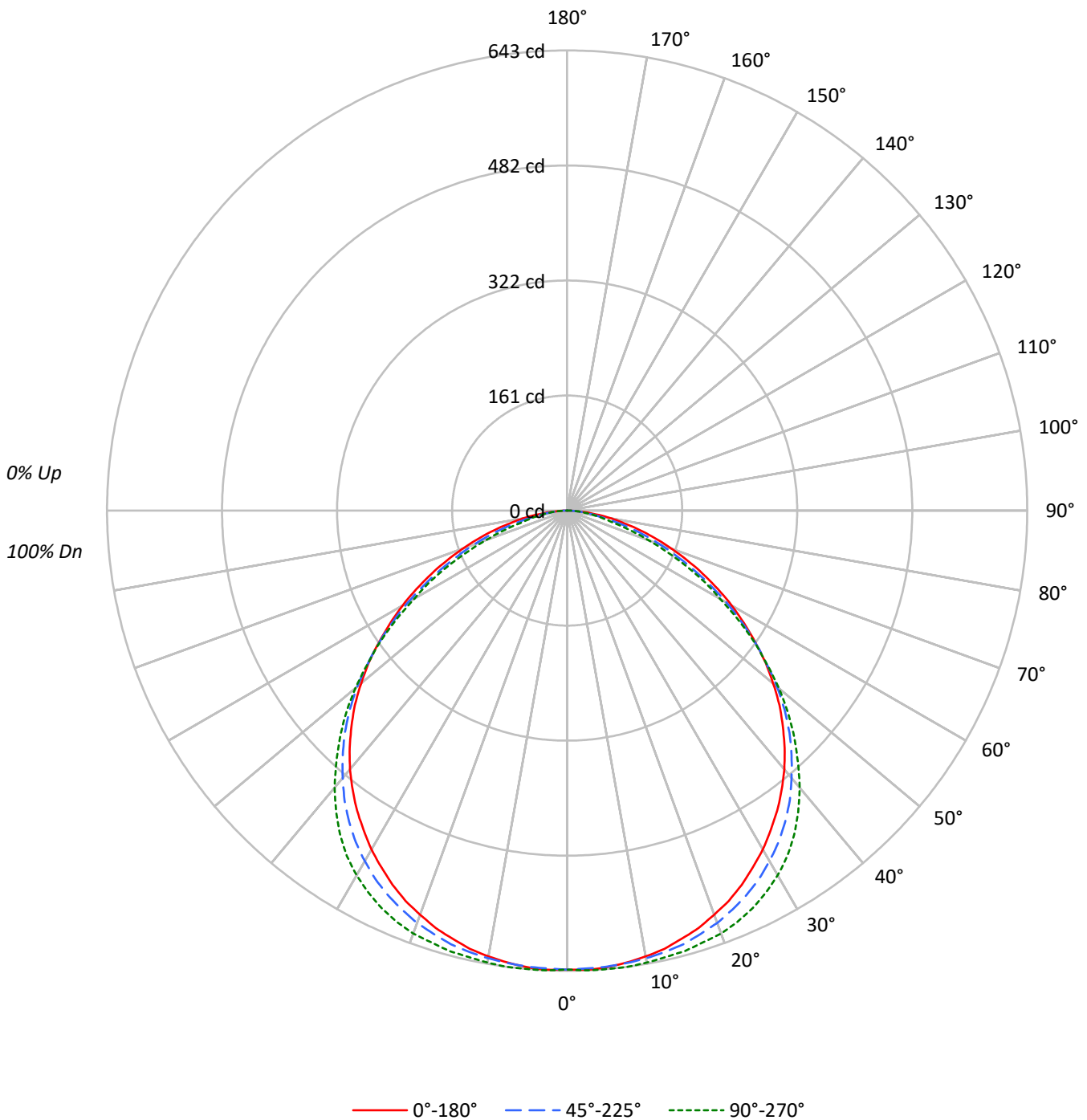
Input Watts (W): 23.715
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1726	1726	1726
5°	1730	1728	1737
10°	1729	1736	1753
15°	1725	1748	1775
20°	1720	1756	1801
25°	1713	1760	1820
30°	1700	1757	1828
35°	1681	1745	1817
40°	1658	1714	1776
45°	1622	1672	1709
50°	1573	1603	1618
55°	1506	1502	1494
60°	1429	1382	1329
65°	1331	1236	1168
70°	1215	1083	944
75°	1092	899	706
80°	970	656	615
85°	763	543	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	3.4
10°-20°	177.4	10.0
20°-30°	273.8	15.4
30°-40°	332.1	18.7
40°-50°	337.2	19.0
50°-60°	285.3	16.1
60°-70°	193.0	10.9
70°-80°	93.3	5.3
80°-90°	22.8	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°	512.3	28.8
0°-40°	844.5	47.5
0°-60°	1466.9	82.6
0°-90°	1776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	641	641	641	641	641	
5°	640	640	640	642	643	61
15°	619	623	627	634	637	175
25°	577	581	593	608	613	266
35°	512	517	531	548	553	320
45°	426	427	439	448	449	329
55°	321	318	320	320	318	287
65°	209	200	194	186	184	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°	641.4	641.4	641.4	641.4	641.4
2.5°	642.3	642.3	640.5	642.3	643.1
5°	640.5	640.5	639.6	642.3	643.1
7.5°	637.0	637.8	637.8	641.4	643.1
10°	632.6	634.3	635.2	640.5	641.4
12.5°	627.3	629.0	631.7	637.8	638.7
15°	619.3	622.9	627.3	634.3	637.0
17.5°	611.4	614.9	620.2	629.9	632.6
20°	600.8	605.2	613.1	624.6	629.0
22.5°	590.2	593.7	603.4	617.6	622.0
25°	577.0	581.4	592.9	607.9	613.1
27.5°	562.0	568.2	580.5	596.4	601.7
30°	547.0	552.3	565.5	583.2	588.4
32.5°	529.3	534.6	549.6	566.4	572.6
35°	511.7	517.0	531.1	547.9	553.2
37.5°	492.3	495.8	510.8	524.9	530.2
40°	472.0	474.6	487.9	502.0	505.5
42.5°	449.9	451.7	464.1	476.4	477.3
45°	426.1	427.0	439.3	448.2	449.1
47.5°	402.3	401.4	412.0	418.2	419.1
50°	375.8	375.8	382.9	386.4	386.4
52.5°	349.4	347.6	351.1	353.8	351.1
55°	321.1	318.5	320.2	320.2	318.5
57.5°	292.9	287.6	288.5	286.7	282.3
60°	265.6	259.4	256.7	250.6	247.0
62.5°	237.3	230.3	225.0	217.9	217.0
65°	209.1	200.3	194.1	186.1	183.5
67.5°	181.7	173.8	165.0	156.2	150.9
70°	154.4	145.6	137.6	126.2	120.0
72.5°	129.7	121.7	112.0	98.8	94.4
75°	105.0	97.0	86.5	75.0	67.9
77.5°	81.2	75.0	63.5	53.8	52.9
80°	62.6	55.6	42.3	39.7	39.7
82.5°	40.6	36.2	30.0	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)