

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: P295778

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295778
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-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1847.0 lumens
Efficiency: N/A
Efficacy: 78.2 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

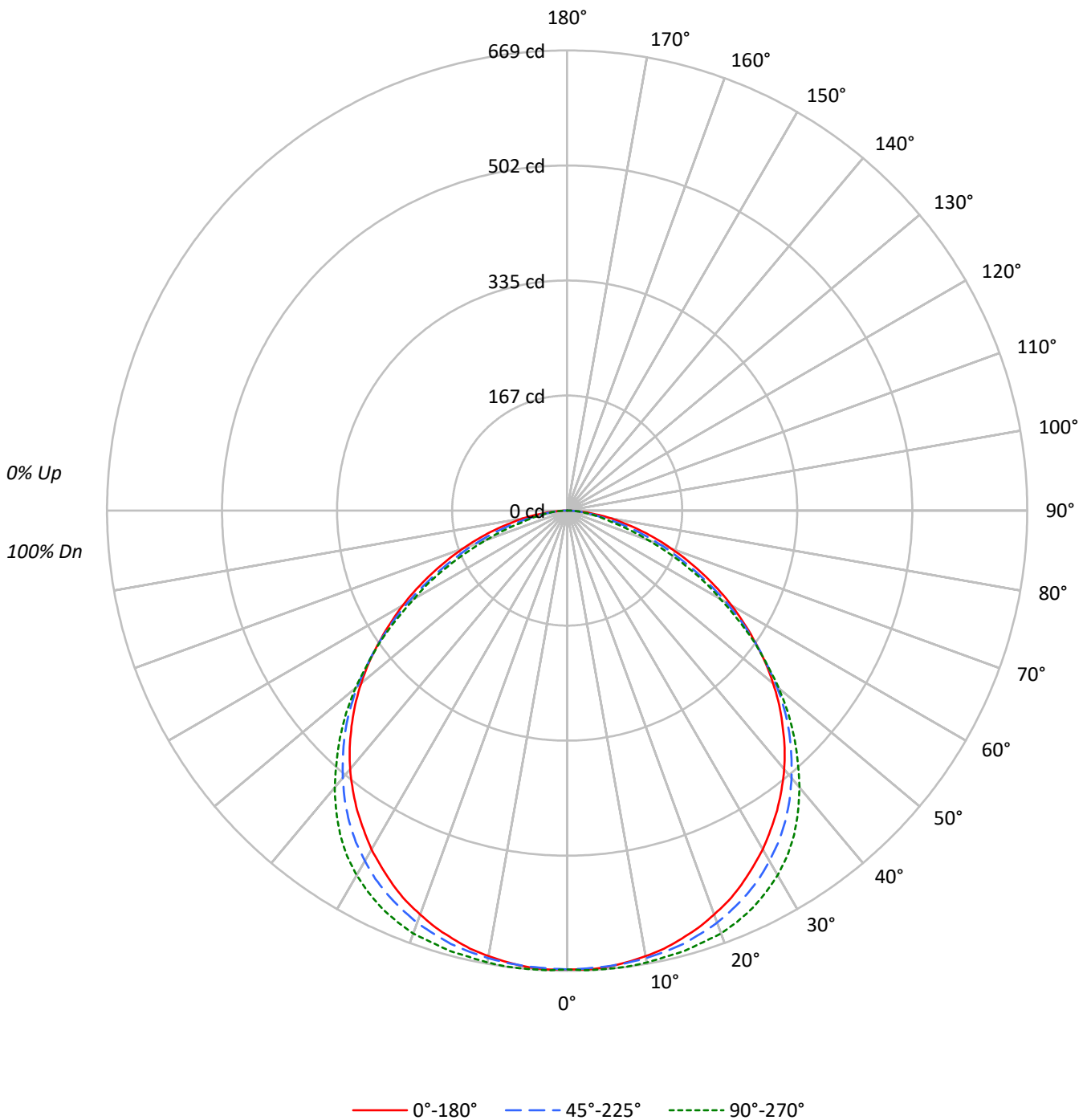
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1795	1795	1795
5°	1799	1797	1807
10°	1797	1805	1823
15°	1794	1817	1845
20°	1789	1826	1873
25°	1781	1831	1893
30°	1767	1827	1902
35°	1748	1814	1890
40°	1724	1782	1847
45°	1687	1739	1777
50°	1636	1667	1683
55°	1567	1563	1554
60°	1486	1437	1383
65°	1384	1285	1215
70°	1264	1126	982
75°	1135	935	734
80°	1009	682	640
85°	794	565	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	3.4
10°-20°	184.5	10.0
20°-30°	284.8	15.4
30°-40°	345.4	18.7
40°-50°	350.7	19.0
50°-60°	296.7	16.1
60°-70°	200.7	10.9
70°-80°	97.0	5.3
80°-90°	23.7	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°	532.8	28.8
0°-40°	878.2	47.5
0°-60°	1525.6	82.6
0°-90°	1847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	666	666	665	668	669	63
15°	644	648	652	660	662	182
25°	600	605	617	632	638	276
35°	532	538	552	570	575	333
45°	443	444	457	466	467	342
55°	334	331	333	333	331	299
65°	217	208	202	194	191	216
75°	109	101	90	78	71	116
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°	667.0	667.0	667.0	667.0	667.0
2.5°	667.9	667.9	666.1	667.9	668.9
5°	666.1	666.1	665.2	667.9	668.9
7.5°	662.4	663.3	663.3	667.0	668.9
10°	657.8	659.7	660.6	666.1	667.0
12.5°	652.3	654.2	656.9	663.3	664.3
15°	644.1	647.8	652.3	659.7	662.4
17.5°	635.8	639.5	645.0	655.1	657.8
20°	624.8	629.4	637.7	649.6	654.2
22.5°	613.8	617.5	627.6	642.2	646.8
25°	600.0	604.6	616.6	632.2	637.7
27.5°	584.4	590.9	603.7	620.2	625.7
30°	568.8	574.4	588.1	606.5	612.0
32.5°	550.5	556.0	571.6	589.0	595.5
35°	532.1	537.7	552.3	569.8	575.3
37.5°	512.0	515.6	531.2	545.9	551.4
40°	490.9	493.6	507.4	522.1	525.7
42.5°	467.9	469.8	482.6	495.4	496.4
45°	443.2	444.1	456.9	466.1	467.0
47.5°	418.4	417.5	428.5	434.9	435.8
50°	390.9	390.9	398.2	401.9	401.9
52.5°	363.3	361.5	365.2	367.9	365.2
55°	334.0	331.2	333.1	333.1	331.2
57.5°	304.6	299.1	300.0	298.2	293.6
60°	276.2	269.7	267.0	260.6	256.9
62.5°	246.8	239.5	234.0	226.6	225.7
65°	217.4	208.3	201.8	193.6	190.8
67.5°	189.0	180.7	171.6	162.4	156.9
70°	160.6	151.4	143.1	131.2	124.8
72.5°	134.9	126.6	116.5	102.8	98.2
75°	109.2	100.9	89.9	78.0	70.6
77.5°	84.4	78.0	66.1	56.0	55.0
80°	65.1	57.8	44.0	41.3	41.3
82.5°	42.2	37.6	31.2	29.4	29.4
85°	25.7	20.2	18.3	18.3	18.3
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)