

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: P295698

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295698  
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-L82765-W2A1-U-2700K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1842.0 lumens  
Efficiency: N/A  
Efficacy: 89.2 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

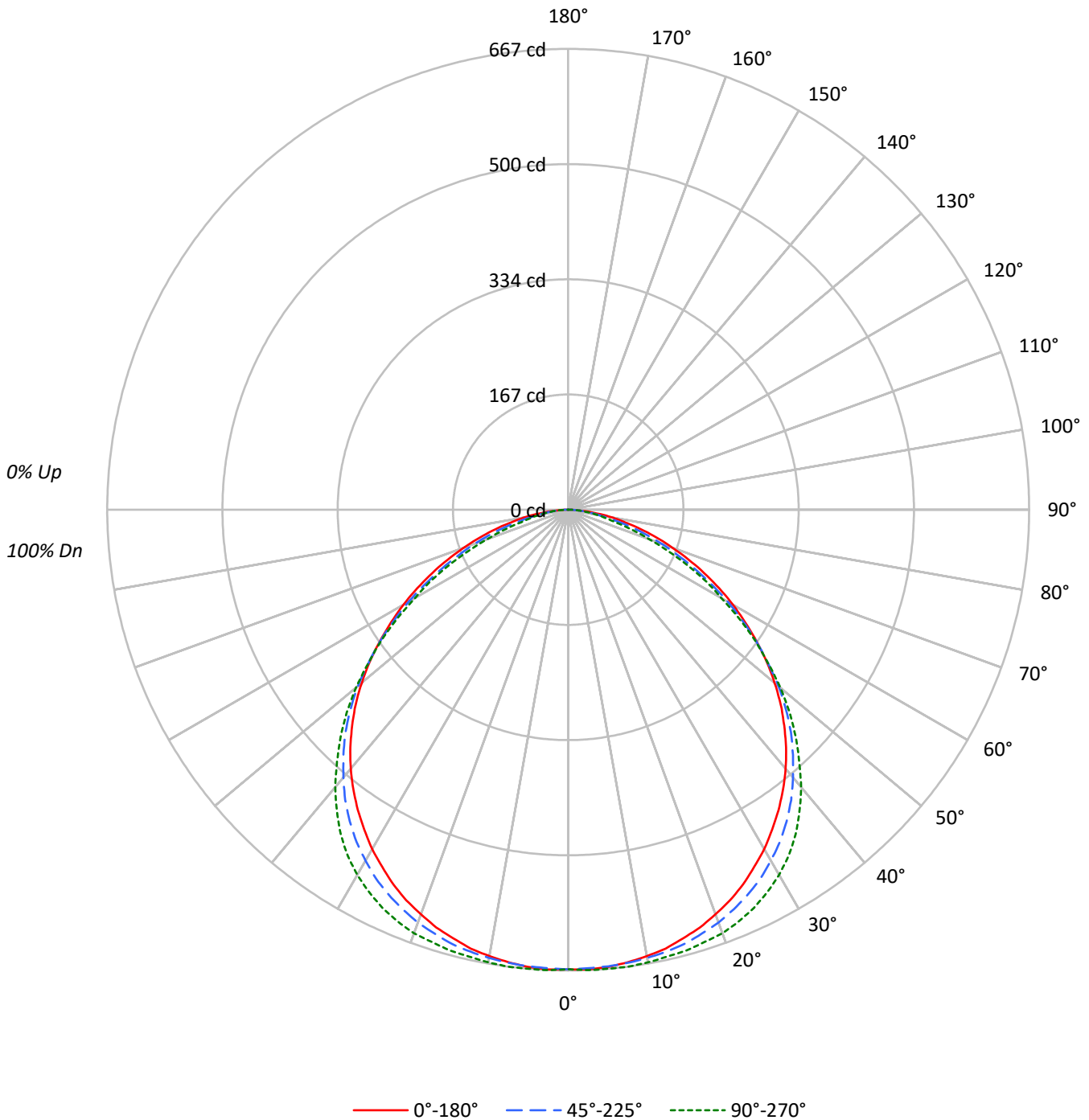
Input Watts (W): 20.646  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1790	1790	1790
5°	1794	1792	1802
10°	1793	1800	1818
15°	1789	1813	1840
20°	1784	1821	1868
25°	1777	1826	1888
30°	1763	1822	1896
35°	1743	1809	1885
40°	1720	1777	1842
45°	1682	1734	1772
50°	1632	1662	1678
55°	1563	1558	1550
60°	1482	1433	1379
65°	1381	1282	1212
70°	1260	1123	979
75°	1132	933	733
80°	1007	680	638
85°	790	565	565



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.3	3.4
10°-20°	184.0	10.0
20°-30°	284.0	15.4
30°-40°	344.5	18.7
40°-50°	349.7	19.0
50°-60°	295.9	16.1
60°-70°	200.2	10.9
70°-80°	96.8	5.3
80°-90°	23.6	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°	531.4	28.8
0°-40°	875.8	47.5
0°-60°	1521.4	82.6
0°-90°	1842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	664	664	663	666	667	63
15°	642	646	651	658	661	181
25°	598	603	615	630	636	276
35°	531	536	551	568	574	332
45°	442	443	456	465	466	341
55°	333	330	332	332	330	298
65°	217	208	201	193	190	215
75°	109	101	90	78	70	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°	665.2	665.2	665.2	665.2	665.2
2.5°	666.1	666.1	664.3	666.1	667.0
5°	664.3	664.3	663.4	666.1	667.0
7.5°	660.6	661.6	661.6	665.2	667.0
10°	656.1	657.9	658.8	664.3	665.2
12.5°	650.6	652.4	655.1	661.6	662.5
15°	642.3	646.0	650.6	657.9	660.6
17.5°	634.1	637.8	643.3	653.3	656.1
20°	623.1	627.7	635.9	647.8	652.4
22.5°	612.1	615.8	625.9	640.5	645.1
25°	598.4	603.0	614.9	630.4	635.9
27.5°	582.9	589.3	602.1	618.5	624.0
30°	567.3	572.8	586.5	604.8	610.3
32.5°	549.0	554.5	570.1	587.4	593.8
35°	530.7	536.2	550.8	568.2	573.7
37.5°	510.6	514.2	529.8	544.4	549.9
40°	489.5	492.3	506.0	520.6	524.3
42.5°	466.7	468.5	481.3	494.1	495.0
45°	442.0	442.9	455.7	464.8	465.7
47.5°	417.2	416.3	427.3	433.7	434.6
50°	389.8	389.8	397.1	400.8	400.8
52.5°	362.3	360.5	364.2	366.9	364.2
55°	333.1	330.3	332.1	332.1	330.3
57.5°	303.8	298.3	299.2	297.4	292.8
60°	275.4	269.0	266.3	259.9	256.2
62.5°	246.1	238.8	233.3	226.0	225.1
65°	216.9	207.7	201.3	193.1	190.3
67.5°	188.5	180.3	171.1	162.0	156.5
70°	160.1	151.0	142.7	130.8	124.4
72.5°	134.5	126.3	116.2	102.5	97.9
75°	108.9	100.7	89.7	77.8	70.5
77.5°	84.2	77.8	65.9	55.8	54.9
80°	65.0	57.6	43.9	41.2	41.2
82.5°	42.1	37.5	31.1	29.3	29.3
85°	25.6	20.1	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)