

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: P295635

Luminaire Tested: **14RLN-LD5-23-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-UNV-L92765-W2A1-U-5700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2231.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

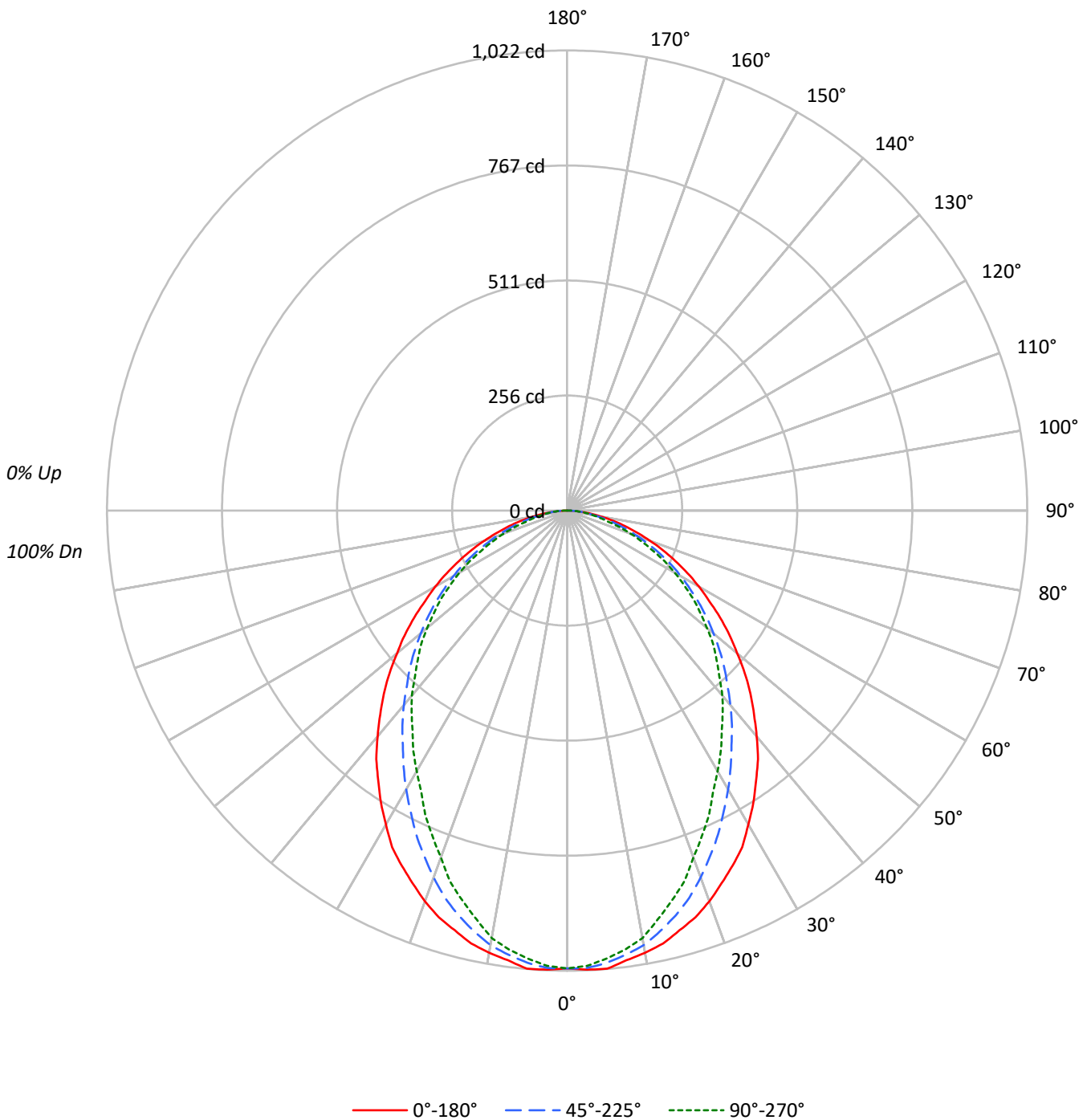
Input Watts (W): 21.297
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2736	2736	2736
5°	2759	2724	2698
10°	2724	2678	2634
15°	2688	2594	2499
20°	2645	2483	2348
25°	2583	2356	2213
30°	2501	2222	2076
35°	2402	2090	1966
40°	2301	1983	1884
45°	2191	1879	1786
50°	2063	1775	1696
55°	1945	1676	1605
60°	1821	1572	1486
65°	1686	1452	1332
70°	1535	1305	1179
75°	1382	1166	961
80°	1182	950	905
85°	960	902	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	4.3
10°-20°	261.3	11.7
20°-30°	366.7	16.4
30°-40°	406.8	18.2
40°-50°	390.5	17.5
50°-60°	327.3	14.7
60°-70°	229.7	10.3
70°-80°	120.0	5.4
80°-90°	33.6	1.5
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°	723.2	32.4
0°-40°	1130.0	50.6
0°-60°	1847.7	82.8
0°-90°	2231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1022	1008	1008	1002	999	96
15°	965	948	931	906	897	272
25°	870	839	794	755	745	400
35°	731	691	636	605	598	458
45°	576	532	494	475	469	443
55°	415	384	357	346	342	371
65°	265	247	228	214	209	263
75°	133	122	112	99	92	141
85°	31	29	29	29	29	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.8	1016.8	1016.8	1016.8	1016.8
2.5°	1020.6	1014.9	1016.8	1016.8	1012.1
5°	1021.5	1008.3	1008.3	1001.7	998.9
7.5°	1007.4	997.0	995.1	986.6	983.8
10°	997.0	986.6	980.0	968.7	964.0
12.5°	984.8	968.7	956.5	937.6	930.1
15°	965.0	948.0	931.0	906.5	897.1
17.5°	947.1	927.3	901.8	874.5	864.1
20°	923.5	899.9	867.0	829.3	819.8
22.5°	896.2	868.9	830.2	789.7	782.2
25°	869.8	838.7	793.5	754.8	745.4
27.5°	842.5	804.8	752.9	711.5	702.1
30°	804.8	766.1	715.2	674.7	668.1
32.5°	769.9	731.3	675.7	642.7	635.1
35°	731.3	690.7	636.1	605.0	598.4
37.5°	696.4	649.3	601.2	571.1	567.3
40°	654.9	612.5	564.5	541.9	536.2
42.5°	614.4	572.0	526.8	507.0	500.4
45°	575.8	531.5	493.8	474.9	469.3
47.5°	535.3	494.7	458.9	443.8	440.1
50°	492.9	457.0	424.1	409.9	405.2
52.5°	455.2	418.4	391.1	377.9	372.2
55°	414.6	383.5	357.2	345.8	342.1
57.5°	374.1	348.7	323.2	312.9	307.2
60°	338.3	312.9	292.1	279.9	276.1
62.5°	301.6	279.9	260.1	248.8	244.1
65°	264.8	246.9	228.0	213.9	209.2
67.5°	230.9	211.1	196.0	183.8	179.0
70°	195.1	180.9	165.9	154.5	149.8
72.5°	162.1	151.7	138.5	126.3	121.6
75°	132.9	122.5	112.1	98.9	92.4
77.5°	103.7	97.1	86.7	75.4	75.4
80°	76.3	72.6	61.3	59.4	58.4
82.5°	52.8	50.9	44.3	43.3	43.3
85°	31.1	29.2	29.2	29.2	29.2
87.5°	13.2	14.1	15.1	15.1	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)