

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: P295633

Luminaire Tested: **14RLN-LD5-23-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295633
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-5000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2188.0 lumens
Efficiency: N/A
Efficacy: 103.6 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

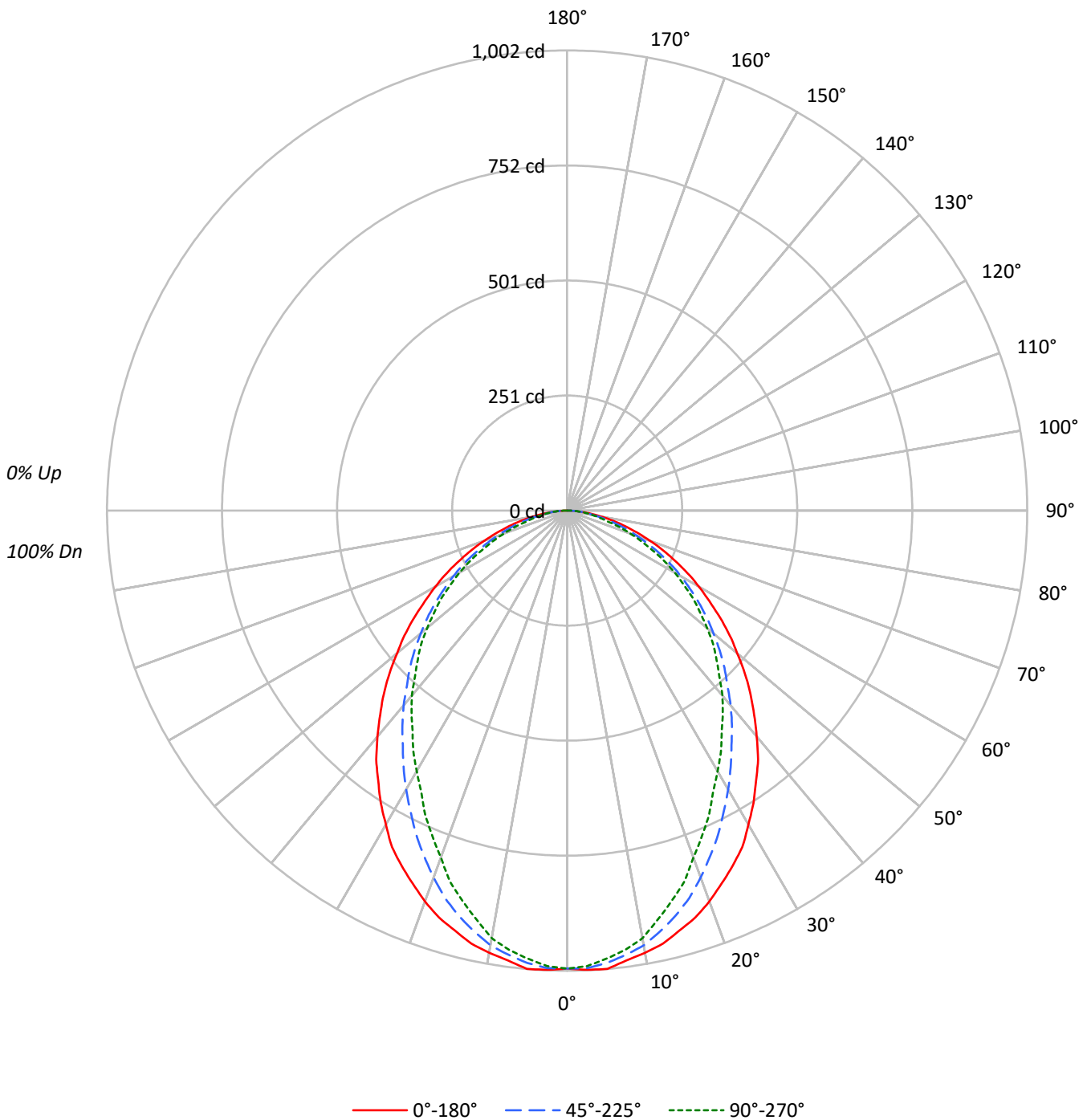
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2683	2683	2683
5°	2706	2671	2646
10°	2672	2626	2583
15°	2637	2544	2451
20°	2594	2435	2302
25°	2533	2311	2170
30°	2453	2180	2036
35°	2356	2049	1928
40°	2256	1945	1847
45°	2149	1843	1751
50°	2024	1741	1664
55°	1908	1643	1574
60°	1786	1542	1457
65°	1654	1424	1307
70°	1505	1280	1156
75°	1355	1144	942
80°	1161	931	888
85°	942	883	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	4.3
10°-20°	256.3	11.7
20°-30°	359.7	16.4
30°-40°	398.9	18.2
40°-50°	383.0	17.5
50°-60°	321.0	14.7
60°-70°	225.3	10.3
70°-80°	117.6	5.4
80°-90°	32.9	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°	709.3	32.4
0°-40°	1108.2	50.7
0°-60°	1812.1	82.8
0°-90°	2188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	1002	989	989	982	980	95
15°	946	930	913	889	880	267
25°	853	822	778	740	731	393
35°	717	677	624	593	587	449
45°	565	521	484	466	460	435
55°	407	376	350	339	336	364
65°	260	242	224	210	205	258
75°	130	120	110	97	91	138
85°	30	29	29	29	29	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.2	997.2	997.2	997.2	997.2
2.5°	1000.9	995.4	997.2	997.2	992.6
5°	1001.8	988.9	988.9	982.4	979.6
7.5°	988.0	977.8	975.9	967.6	964.9
10°	977.8	967.6	961.2	950.1	945.4
12.5°	965.8	950.1	938.1	919.6	912.2
15°	946.4	929.7	913.1	889.1	879.8
17.5°	928.8	909.4	884.5	857.6	847.5
20°	905.7	882.6	850.3	813.3	804.0
22.5°	878.9	852.1	814.2	774.5	767.1
25°	853.0	822.5	778.2	740.3	731.0
27.5°	826.2	789.3	738.4	697.8	688.5
30°	789.3	751.4	701.5	661.7	655.3
32.5°	755.1	717.2	662.6	630.3	622.9
35°	717.2	677.4	623.8	593.3	586.9
37.5°	683.0	636.8	589.6	560.1	556.4
40°	642.3	600.7	553.6	531.4	525.9
42.5°	602.6	561.0	516.6	497.2	490.7
45°	564.7	521.2	484.3	465.8	460.2
47.5°	524.9	485.2	450.1	435.3	431.6
50°	483.4	448.2	415.9	402.0	397.4
52.5°	446.4	410.3	383.5	370.6	365.1
55°	406.6	376.1	350.3	339.2	335.5
57.5°	366.9	342.0	317.0	306.8	301.3
60°	331.8	306.8	286.5	274.5	270.8
62.5°	295.7	274.5	255.1	244.0	239.4
65°	259.7	242.1	223.7	209.8	205.2
67.5°	226.4	207.0	192.2	180.2	175.6
70°	191.3	177.4	162.7	151.6	146.9
72.5°	159.0	148.8	135.9	123.8	119.2
75°	130.3	120.1	110.0	97.0	90.6
77.5°	101.7	95.2	85.0	73.9	73.9
80°	74.9	71.2	60.1	58.2	57.3
82.5°	51.8	49.9	43.4	42.5	42.5
85°	30.5	28.6	28.6	28.6	28.6
87.5°	12.9	13.9	14.8	14.8	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)