

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: P295634

Luminaire Tested: **14RLN-LD5-23-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295634
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-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2222.0 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

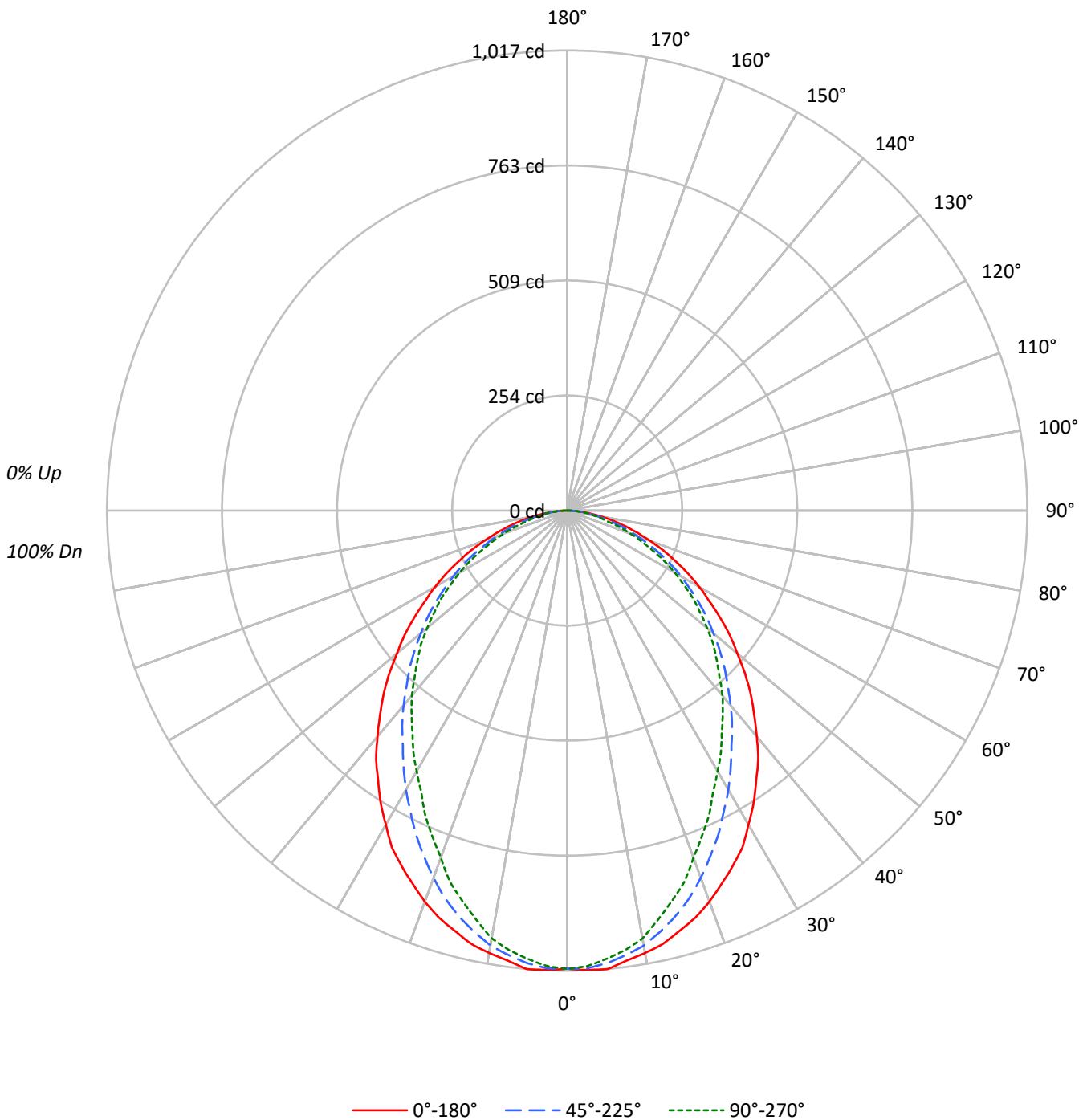
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2725	2725	2725
5°	2748	2713	2687
10°	2713	2667	2623
15°	2678	2583	2489
20°	2634	2473	2338
25°	2572	2347	2204
30°	2490	2214	2068
35°	2393	2081	1958
40°	2291	1975	1876
45°	2183	1872	1779
50°	2055	1768	1690
55°	1938	1669	1598
60°	1813	1566	1480
65°	1679	1446	1327
70°	1529	1300	1174
75°	1376	1161	957
80°	1178	945	902
85°	957	898	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	4.3
10°-20°	260.2	11.7
20°-30°	365.3	16.4
30°-40°	405.1	18.2
40°-50°	388.9	17.5
50°-60°	325.9	14.7
60°-70°	228.8	10.3
70°-80°	119.5	5.4
80°-90°	33.4	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°	720.3	32.4
0°-40°	1125.4	50.6
0°-60°	1840.3	82.8
0°-90°	2222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1013	1013	1013	1013	1013	
5°	1017	1004	1004	998	995	96
15°	961	944	927	903	894	271
25°	866	835	790	752	742	399
35°	728	688	634	603	596	456
45°	574	529	492	473	467	442
55°	413	382	356	344	341	369
65°	264	246	227	213	208	262
75°	132	122	112	98	92	140
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°	1012.7	1012.7	1012.7	1012.7	1012.7
2.5°	1016.5	1010.8	1012.7	1012.7	1008.0
5°	1017.4	1004.3	1004.3	997.7	994.9
7.5°	1003.3	993.0	991.1	982.7	979.8
10°	993.0	982.7	976.1	964.8	960.1
12.5°	980.8	964.8	952.6	933.9	926.4
15°	961.1	944.2	927.3	902.9	893.5
17.5°	943.2	923.5	898.2	871.0	860.7
20°	919.8	896.3	863.5	825.9	816.5
22.5°	892.6	865.3	826.9	786.5	779.0
25°	866.3	835.3	790.3	751.8	742.4
27.5°	839.1	801.5	749.9	708.6	699.2
30°	801.5	763.0	712.4	672.0	665.4
32.5°	766.8	728.3	672.9	640.1	632.6
35°	728.3	688.0	633.5	602.6	596.0
37.5°	693.6	646.7	598.8	568.8	565.0
40°	652.3	610.1	562.2	539.7	534.0
42.5°	611.9	569.7	524.7	504.9	498.4
45°	573.5	529.3	491.8	473.0	467.4
47.5°	533.1	492.7	457.1	442.1	438.3
50°	490.9	455.2	422.3	408.3	403.6
52.5°	453.3	416.7	389.5	376.4	370.7
55°	413.0	382.0	355.7	344.4	340.7
57.5°	372.6	347.3	321.9	311.6	306.0
60°	336.9	311.6	291.0	278.8	275.0
62.5°	300.3	278.8	259.0	247.8	243.1
65°	263.7	245.9	227.1	213.1	208.4
67.5°	229.9	210.2	195.2	183.0	178.3
70°	194.3	180.2	165.2	153.9	149.2
72.5°	161.4	151.1	138.0	125.8	121.1
75°	132.3	122.0	111.7	98.5	92.0
77.5°	103.2	96.7	86.3	75.1	75.1
80°	76.0	72.3	61.0	59.1	58.2
82.5°	52.6	50.7	44.1	43.2	43.2
85°	31.0	29.1	29.1	29.1	29.1
87.5°	13.1	14.1	15.0	15.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)