

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: P295630

Luminaire Tested: **14RLN-LD5-23-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295630
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-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2025.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

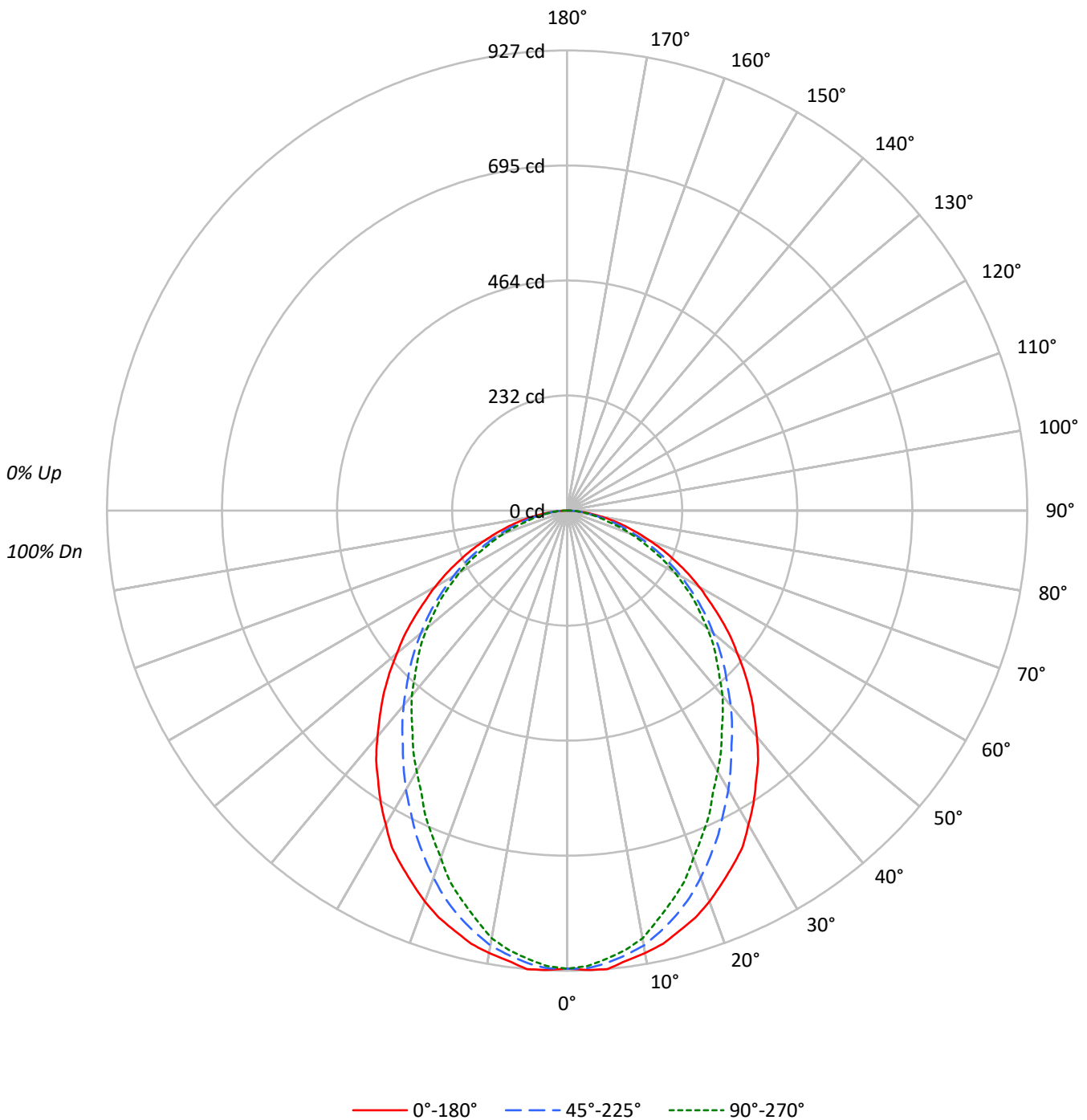
Input Watts (W): 20.739
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2484	2484	2484
5°	2505	2472	2449
10°	2473	2431	2391
15°	2440	2354	2269
20°	2400	2253	2131
25°	2344	2138	2009
30°	2270	2017	1884
35°	2180	1897	1784
40°	2088	1800	1710
45°	1989	1706	1621
50°	1873	1611	1540
55°	1766	1521	1457
60°	1653	1427	1349
65°	1531	1318	1209
70°	1393	1184	1070
75°	1254	1058	871
80°	1074	862	821
85°	871	818	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	4.3
10°-20°	237.2	11.7
20°-30°	332.9	16.4
30°-40°	369.2	18.2
40°-50°	354.4	17.5
50°-60°	297.1	14.7
60°-70°	208.5	10.3
70°-80°	108.9	5.4
80°-90°	30.5	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°	656.5	32.4
0°-40°	1025.7	50.6
0°-60°	1677.1	82.8
0°-90°	2025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	927	915	915	909	907	88
15°	876	860	845	823	814	247
25°	790	761	720	685	677	363
35°	664	627	577	549	543	416
45°	523	482	448	431	426	403
55°	376	348	324	314	310	337
65°	240	224	207	194	190	239
75°	121	111	102	90	84	128
85°	28	26	26	26	26	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.9	922.9	922.9	922.9	922.9
2.5°	926.3	921.2	922.9	922.9	918.6
5°	927.2	915.2	915.2	909.2	906.7
7.5°	914.4	905.0	903.2	895.5	893.0
10°	905.0	895.5	889.6	879.3	875.0
12.5°	893.8	879.3	868.2	851.1	844.2
15°	875.9	860.5	845.1	822.8	814.3
17.5°	859.6	841.7	818.6	793.8	784.3
20°	838.2	816.9	786.9	752.7	744.1
22.5°	813.4	788.6	753.6	716.8	709.9
25°	789.5	761.3	720.2	685.1	676.6
27.5°	764.7	730.5	683.4	645.8	637.2
30°	730.5	695.4	649.2	612.4	606.4
32.5°	698.8	663.7	613.3	583.3	576.5
35°	663.7	627.0	577.4	549.1	543.1
37.5°	632.1	589.3	545.7	518.3	514.9
40°	594.5	556.0	512.3	491.8	486.7
42.5°	557.7	519.2	478.1	460.2	454.2
45°	522.6	482.4	448.2	431.1	426.0
47.5°	485.8	449.1	416.6	402.9	399.4
50°	447.3	414.8	384.9	372.1	367.8
52.5°	413.1	379.8	355.0	343.0	337.9
55°	376.4	348.1	324.2	313.9	310.5
57.5°	339.6	316.5	293.4	284.0	278.8
60°	307.1	284.0	265.2	254.0	250.6
62.5°	273.7	254.0	236.1	225.8	221.5
65°	240.4	224.1	207.0	194.2	189.9
67.5°	209.6	191.6	177.9	166.8	162.5
70°	177.1	164.2	150.5	140.3	136.0
72.5°	147.1	137.7	125.7	114.6	110.3
75°	120.6	111.2	101.8	89.8	83.8
77.5°	94.1	88.1	78.7	68.4	68.4
80°	69.3	65.9	55.6	53.9	53.0
82.5°	47.9	46.2	40.2	39.3	39.3
85°	28.2	26.5	26.5	26.5	26.5
87.5°	12.0	12.8	13.7	13.7	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)