

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: P295636

Luminaire Tested: **14RLN-LD5-23-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295636
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-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2246.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

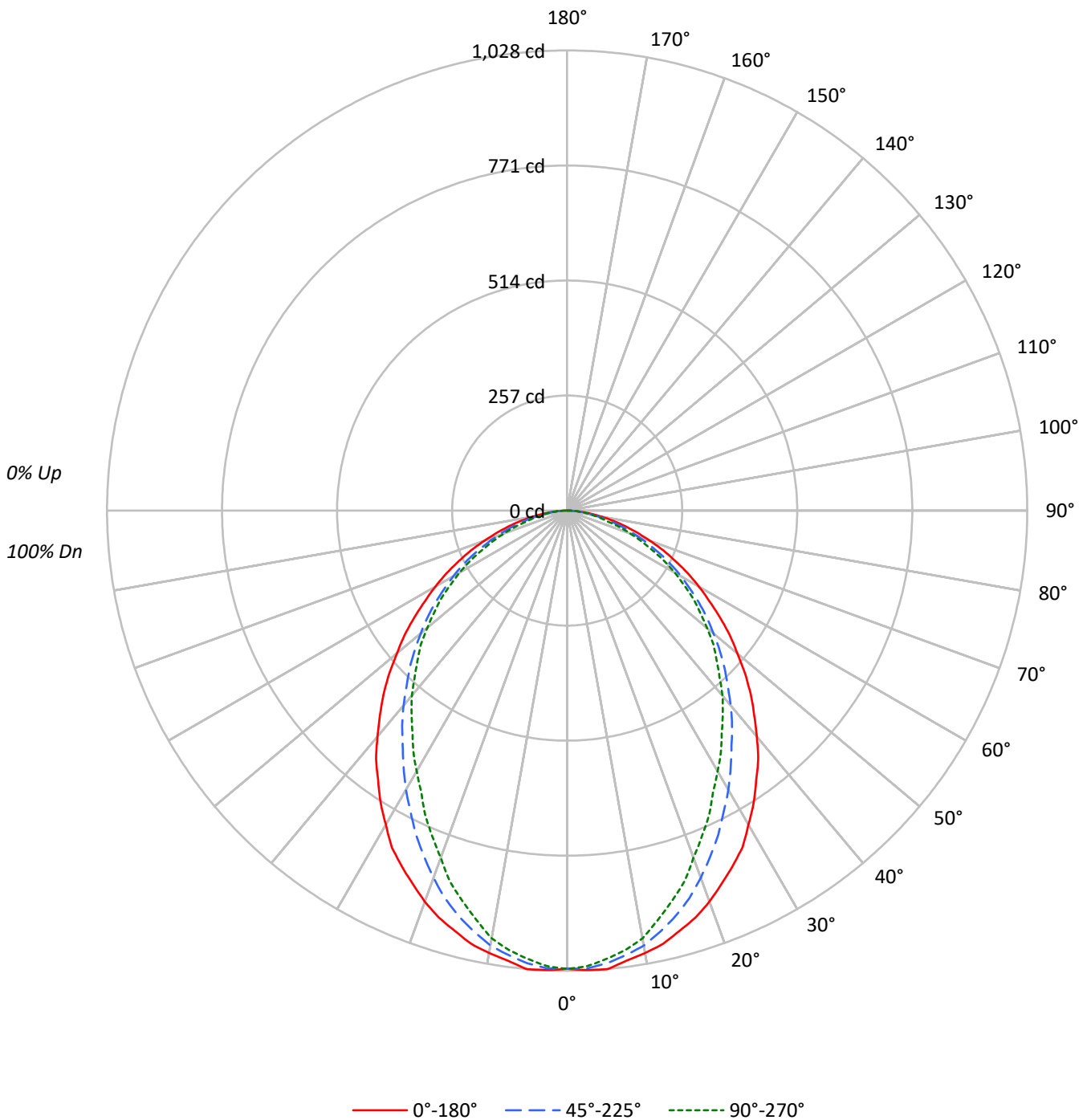
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2754	2754	2754
5°	2778	2742	2716
10°	2743	2696	2652
15°	2707	2611	2516
20°	2662	2499	2364
25°	2600	2372	2228
30°	2518	2238	2090
35°	2418	2104	1979
40°	2316	1996	1896
45°	2206	1892	1798
50°	2077	1787	1708
55°	1958	1687	1616
60°	1833	1583	1496
65°	1698	1462	1341
70°	1545	1314	1186
75°	1391	1174	967
80°	1190	956	911
85°	966	908	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	4.3
10°-20°	263.1	11.7
20°-30°	369.2	16.4
30°-40°	409.5	18.2
40°-50°	393.1	17.5
50°-60°	329.5	14.7
60°-70°	231.3	10.3
70°-80°	120.8	5.4
80°-90°	33.8	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°	728.1	32.4
0°-40°	1137.6	50.6
0°-60°	1860.2	82.8
0°-90°	2246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1028	1015	1015	1008	1006	97
15°	972	954	937	913	903	274
25°	876	844	799	760	750	403
35°	736	695	640	609	602	461
45°	580	535	497	478	472	446
55°	417	386	360	348	344	373
65°	267	249	230	215	211	265
75°	134	123	113	100	93	142
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°	1023.6	1023.6	1023.6	1023.6	1023.6
2.5°	1027.4	1021.7	1023.6	1023.6	1018.9
5°	1028.4	1015.1	1015.1	1008.5	1005.6
7.5°	1014.2	1003.7	1001.8	993.3	990.4
10°	1003.7	993.3	986.6	975.3	970.5
12.5°	991.4	975.3	962.9	943.9	936.4
15°	971.5	954.4	937.3	912.6	903.2
17.5°	953.4	933.5	907.9	880.4	869.9
20°	929.7	906.0	872.8	834.8	825.4
22.5°	902.2	874.7	835.8	795.0	787.4
25°	875.6	844.3	798.8	759.9	750.4
27.5°	848.1	810.2	758.0	716.3	706.8
30°	810.2	771.3	720.1	679.3	672.6
32.5°	775.1	736.2	680.2	647.0	639.4
35°	736.2	695.4	640.4	609.1	602.4
37.5°	701.1	653.6	605.3	574.9	571.1
40°	659.3	616.6	568.3	545.5	539.8
42.5°	618.5	575.9	530.3	510.4	503.8
45°	579.6	535.1	497.1	478.1	472.4
47.5°	538.9	498.1	462.0	446.8	443.0
50°	496.2	460.1	426.9	412.7	407.9
52.5°	458.2	421.2	393.7	380.4	374.7
55°	417.4	386.1	359.6	348.2	344.4
57.5°	376.6	351.0	325.4	315.0	309.3
60°	340.6	315.0	294.1	281.8	278.0
62.5°	303.6	281.8	261.8	250.5	245.7
65°	266.6	248.6	229.6	215.4	210.6
67.5°	232.4	212.5	197.3	185.0	180.3
70°	196.4	182.1	167.0	155.6	150.8
72.5°	163.2	152.7	139.5	127.1	122.4
75°	133.8	123.3	112.9	99.6	93.0
77.5°	104.4	97.7	87.3	75.9	75.9
80°	76.8	73.0	61.7	59.8	58.8
82.5°	53.1	51.2	44.6	43.6	43.6
85°	31.3	29.4	29.4	29.4	29.4
87.5°	13.3	14.2	15.2	15.2	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)