

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: P295567

Luminaire Tested: **14RLN-LD5-26-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295567
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-LD5-26-UNV-L82765-W2A1-U-2700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2452.0 lumens
Efficiency: N/A
Efficacy: 103.0 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

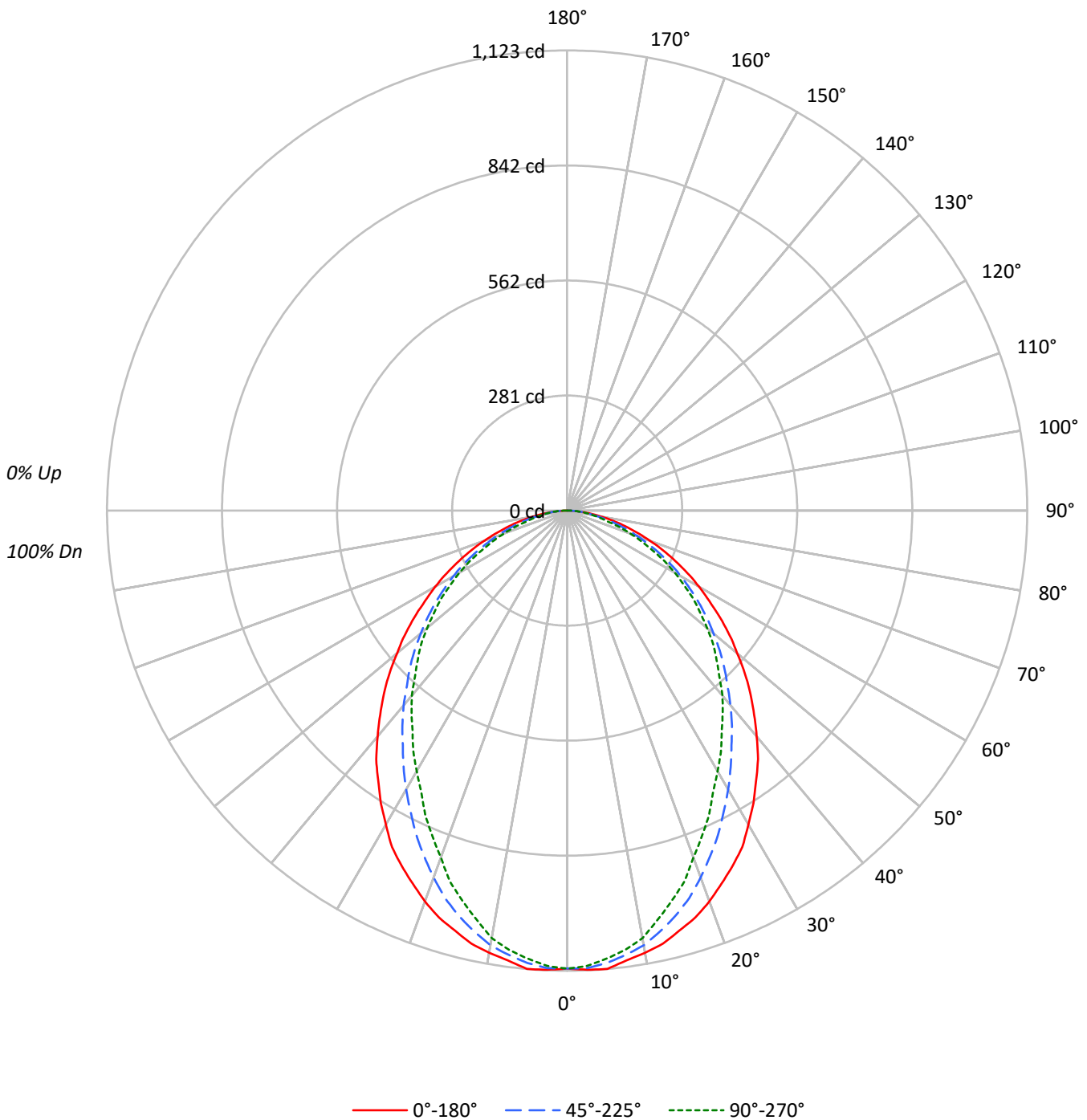
Input Watts (W): 23.808
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3007	3007	3007
5°	3033	2994	2965
10°	2994	2943	2895
15°	2955	2851	2747
20°	2907	2729	2580
25°	2839	2589	2432
30°	2748	2443	2282
35°	2640	2297	2161
40°	2529	2179	2070
45°	2408	2065	1963
50°	2268	1951	1865
55°	2138	1841	1764
60°	2001	1728	1633
65°	1853	1596	1464
70°	1687	1434	1296
75°	1518	1281	1055
80°	1300	1043	995
85°	1056	991	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	4.3
10°-20°	287.2	11.7
20°-30°	403.1	16.4
30°-40°	447.1	18.2
40°-50°	429.2	17.5
50°-60°	359.7	14.7
60°-70°	252.5	10.3
70°-80°	131.8	5.4
80°-90°	36.9	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°	794.9	32.4
0°-40°	1241.9	50.7
0°-60°	2030.8	82.8
0°-90°	2452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1123	1108	1108	1101	1098	106
15°	1061	1042	1023	996	986	299
25°	956	922	872	830	819	440
35°	804	759	699	665	658	503
45°	633	584	543	522	516	487
55°	456	422	392	380	376	408
65°	291	271	251	235	230	289
75°	146	135	123	109	102	155
85°	34	32	32	32	32	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1117.5	1117.5	1117.5	1117.5	1117.5
2.5°	1121.7	1115.5	1117.5	1117.5	1112.3
5°	1122.7	1108.2	1108.2	1101.0	1097.8
7.5°	1107.2	1095.8	1093.7	1084.4	1081.3
10°	1095.8	1084.4	1077.1	1064.7	1059.5
12.5°	1082.3	1064.7	1051.2	1030.5	1022.2
15°	1060.6	1041.9	1023.3	996.3	986.0
17.5°	1040.9	1019.1	991.2	961.1	949.7
20°	1015.0	989.1	952.8	911.4	901.1
22.5°	985.0	954.9	912.5	867.9	859.6
25°	956.0	921.8	872.1	829.6	819.2
27.5°	925.9	884.5	827.5	782.0	771.6
30°	884.5	842.0	786.1	741.6	734.3
32.5°	846.2	803.7	742.6	706.3	698.1
35°	803.7	759.2	699.1	664.9	657.7
37.5°	765.4	713.6	660.8	627.6	623.5
40°	719.8	673.2	620.4	595.5	589.3
42.5°	675.3	628.7	579.0	557.2	550.0
45°	632.8	584.1	542.7	522.0	515.8
47.5°	588.3	543.7	504.4	487.8	483.7
50°	541.7	502.3	466.1	450.5	445.4
52.5°	500.2	459.9	429.8	415.3	409.1
55°	455.7	421.5	392.5	380.1	376.0
57.5°	411.2	383.2	355.2	343.9	337.6
60°	371.8	343.9	321.1	307.6	303.5
62.5°	331.4	307.6	285.9	273.4	268.2
65°	291.0	271.4	250.6	235.1	229.9
67.5°	253.7	232.0	215.4	202.0	196.8
70°	214.4	198.9	182.3	169.9	164.7
72.5°	178.1	166.7	152.2	138.8	133.6
75°	146.0	134.6	123.2	108.7	101.5
77.5°	113.9	106.7	95.3	82.9	82.9
80°	83.9	79.7	67.3	65.2	64.2
82.5°	58.0	55.9	48.7	47.6	47.6
85°	34.2	32.1	32.1	32.1	32.1
87.5°	14.5	15.5	16.6	16.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)