

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: P295566

Luminaire Tested: **14RLN-LD5-23-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295566
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-L82765-W2A1-U-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2474.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

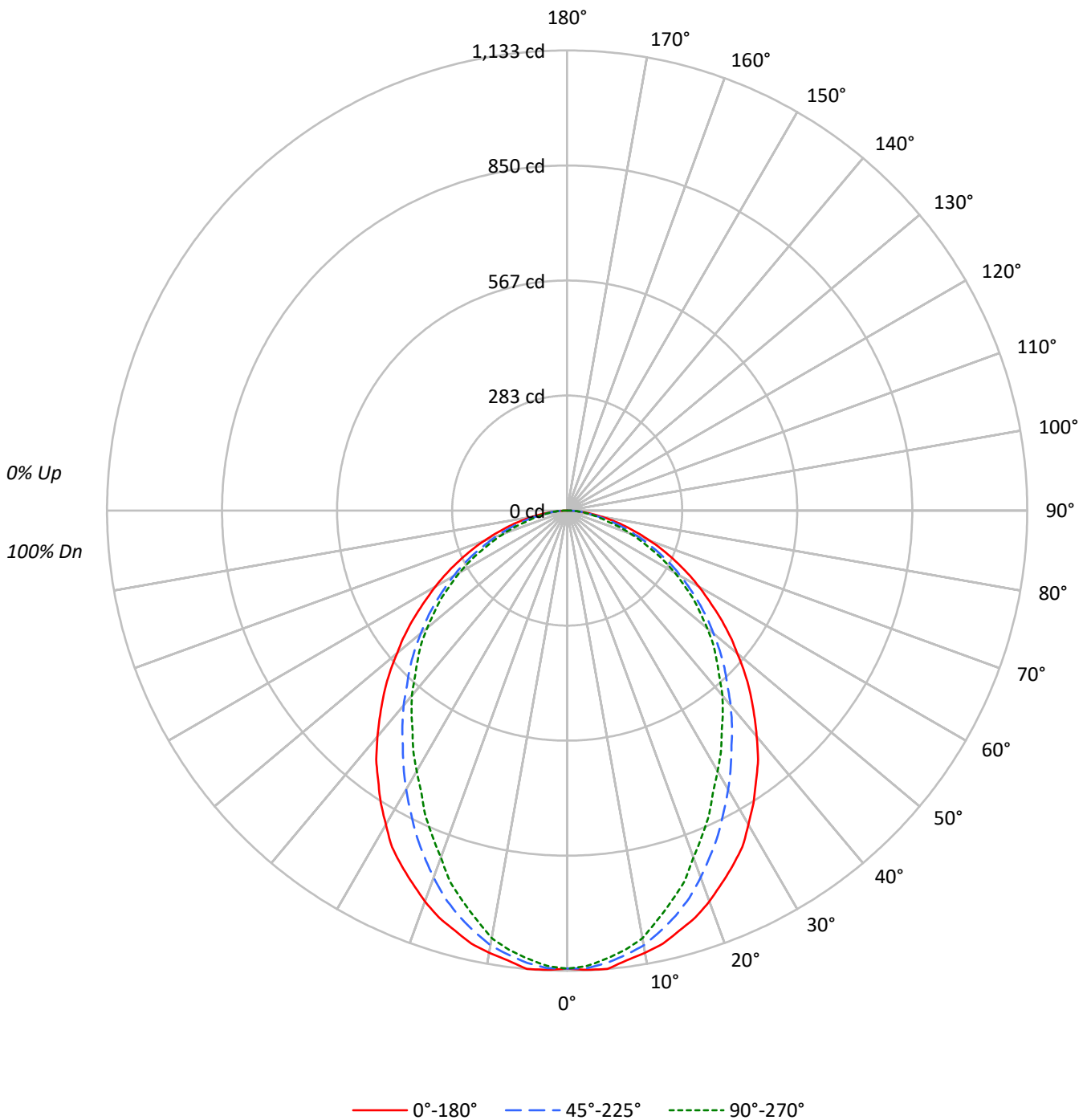
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3034	3034	3034
5°	3060	3020	2992
10°	3021	2970	2921
15°	2981	2876	2771
20°	2933	2753	2603
25°	2864	2613	2454
30°	2773	2465	2302
35°	2664	2317	2180
40°	2551	2199	2089
45°	2430	2084	1980
50°	2288	1968	1881
55°	2157	1858	1780
60°	2019	1743	1648
65°	1869	1610	1477
70°	1702	1447	1308
75°	1531	1293	1065
80°	1311	1052	1004
85°	1065	1000	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	4.3
10°-20°	289.8	11.7
20°-30°	406.7	16.4
30°-40°	451.1	18.2
40°-50°	433.0	17.5
50°-60°	362.9	14.7
60°-70°	254.7	10.3
70°-80°	133.0	5.4
80°-90°	37.2	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°	802.0	32.4
0°-40°	1253.1	50.7
0°-60°	2049.0	82.8
0°-90°	2474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1133	1118	1118	1111	1108	107
15°	1070	1051	1032	1005	995	302
25°	964	930	880	837	827	444
35°	811	766	705	671	664	508
45°	638	589	548	527	520	492
55°	460	425	396	384	379	411
65°	294	274	253	237	232	292
75°	147	136	124	110	102	156
85°	34	32	32	32	32	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.6	1127.6	1127.6	1127.6	1127.6
2.5°	1131.7	1125.5	1127.6	1127.6	1122.3
5°	1132.8	1118.1	1118.1	1110.8	1107.7
7.5°	1117.1	1105.6	1103.5	1094.1	1091.0
10°	1105.6	1094.1	1086.8	1074.3	1069.0
12.5°	1092.0	1074.3	1060.7	1039.8	1031.4
15°	1070.1	1051.3	1032.5	1005.3	994.8
17.5°	1050.2	1028.3	1000.1	969.8	958.3
20°	1024.1	998.0	961.4	919.6	909.1
22.5°	993.8	963.5	920.6	875.7	867.3
25°	964.5	930.0	879.9	837.0	826.6
27.5°	934.2	892.4	835.0	789.0	778.5
30°	892.4	849.6	793.2	748.2	740.9
32.5°	853.8	810.9	749.3	712.7	704.3
35°	810.9	766.0	705.4	670.9	663.6
37.5°	772.3	720.0	666.7	633.3	629.1
40°	726.3	679.2	626.0	600.9	594.6
42.5°	681.3	634.3	584.2	562.2	554.9
45°	638.5	589.4	547.6	526.7	520.4
47.5°	593.6	548.6	508.9	492.2	488.0
50°	546.5	506.8	470.2	454.6	449.3
52.5°	504.7	464.0	433.7	419.0	412.8
55°	459.8	425.3	396.1	383.5	379.3
57.5°	414.9	386.6	358.4	346.9	340.7
60°	375.2	346.9	323.9	310.4	306.2
62.5°	334.4	310.4	288.4	275.9	270.7
65°	293.6	273.8	252.9	237.2	232.0
67.5°	256.0	234.1	217.4	203.8	198.5
70°	216.3	200.6	183.9	171.4	166.2
72.5°	179.7	168.2	153.6	140.0	134.8
75°	147.3	135.8	124.4	109.7	102.4
77.5°	114.9	107.6	96.1	83.6	83.6
80°	84.6	80.5	67.9	65.8	64.8
82.5°	58.5	56.4	49.1	48.1	48.1
85°	34.5	32.4	32.4	32.4	32.4
87.5°	14.6	15.7	16.7	16.7	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)