

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: P295645

Luminaire Tested: **14RLN-LD5-26-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295645
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-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: 2536.0 lumens
Efficiency: N/A
Efficacy: 101.7 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

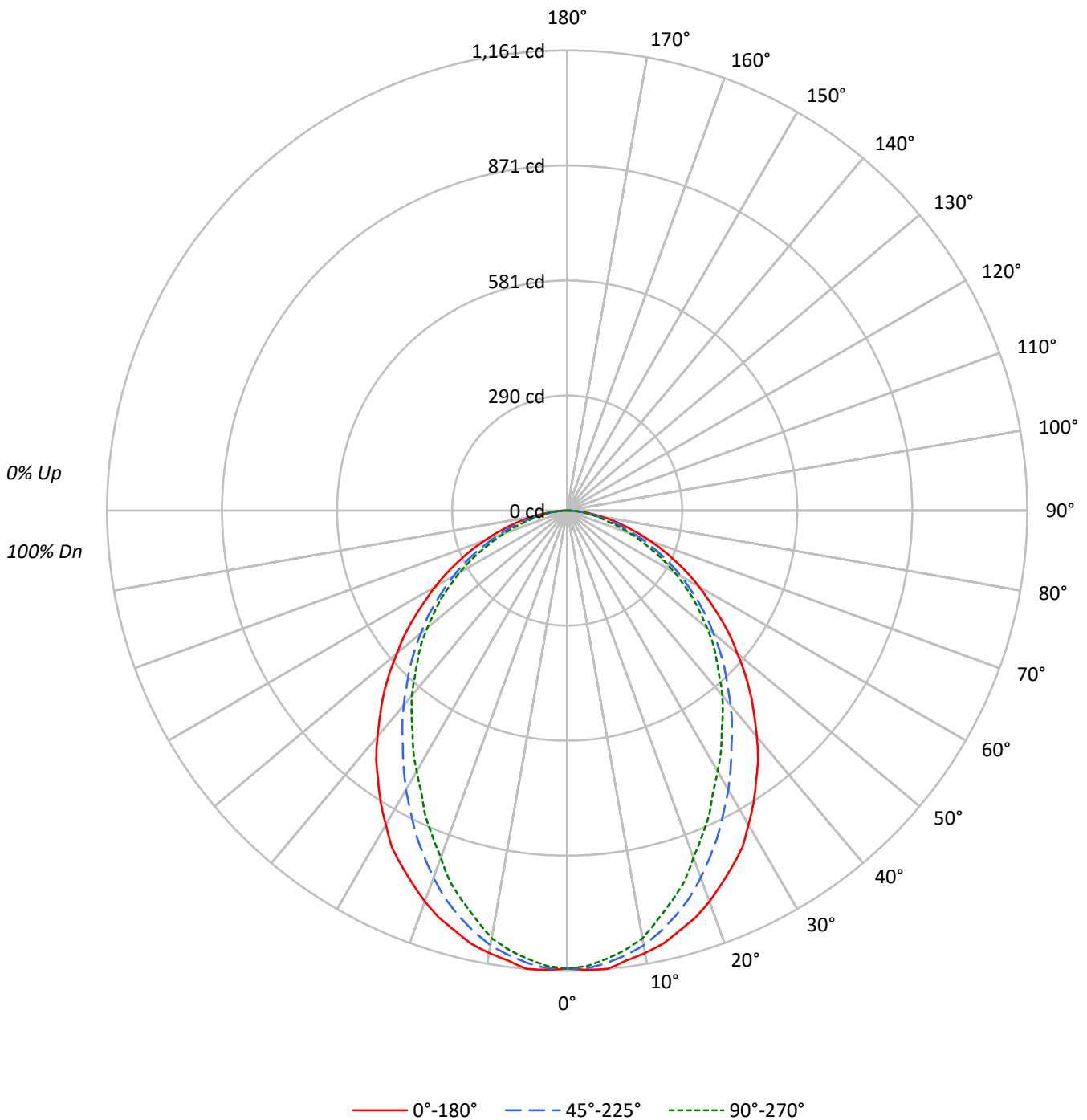
Input Watts (W): 24.924
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3110	3110	3110
5°	3137	3096	3067
10°	3097	3044	2994
15°	3056	2948	2841
20°	3006	2822	2669
25°	2936	2678	2516
30°	2843	2526	2360
35°	2731	2375	2235
40°	2615	2254	2141
45°	2491	2136	2030
50°	2345	2018	1928
55°	2211	1905	1824
60°	2070	1787	1689
65°	1917	1650	1514
70°	1744	1483	1340
75°	1570	1326	1092
80°	1345	1079	1029
85°	1090	1025	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	4.3
10°-20°	297.0	11.7
20°-30°	416.9	16.4
30°-40°	462.4	18.2
40°-50°	443.9	17.5
50°-60°	372.0	14.7
60°-70°	261.1	10.3
70°-80°	136.4	5.4
80°-90°	38.2	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°	822.1	32.4
0°-40°	1284.5	50.7
0°-60°	2100.3	82.8
0°-90°	2536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1161	1146	1146	1139	1136	110
15°	1097	1078	1058	1030	1020	309
25°	989	953	902	858	847	455
35°	831	785	723	688	680	521
45°	654	604	561	540	533	504
55°	471	436	406	393	389	422
65°	301	281	259	243	238	299
75°	151	139	128	112	105	160
85°	35	33	33	33	33	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1155.8	1155.8	1155.8	1155.8	1155.8
2.5°	1160.1	1153.7	1155.8	1155.8	1150.5
5°	1161.2	1146.2	1146.2	1138.7	1135.5
7.5°	1145.1	1133.3	1131.2	1121.5	1118.3
10°	1133.3	1121.5	1114.0	1101.2	1095.8
12.5°	1119.4	1101.2	1087.3	1065.8	1057.3
15°	1096.9	1077.6	1058.3	1030.5	1019.8
17.5°	1076.5	1054.0	1025.1	994.1	982.3
20°	1049.8	1023.0	985.5	942.6	931.9
22.5°	1018.7	987.6	943.7	897.7	889.1
25°	988.7	953.4	901.9	858.0	847.3
27.5°	957.6	914.8	855.9	808.7	798.0
30°	914.8	870.9	813.0	767.0	759.5
32.5°	875.2	831.2	768.0	730.5	722.0
35°	831.2	785.2	723.0	687.7	680.2
37.5°	791.6	738.0	683.4	649.1	644.9
40°	744.5	696.3	641.6	615.9	609.5
42.5°	698.4	650.2	598.8	576.3	568.8
45°	654.5	604.1	561.3	539.9	533.4
47.5°	608.4	562.4	521.7	504.5	500.2
50°	560.2	519.5	482.0	466.0	460.6
52.5°	517.4	475.6	444.5	429.5	423.1
55°	471.3	436.0	406.0	393.1	388.8
57.5°	425.3	396.3	367.4	355.6	349.2
60°	384.6	355.6	332.1	318.1	313.9
62.5°	342.8	318.1	295.6	282.8	277.4
65°	301.0	280.7	259.2	243.2	237.8
67.5°	262.4	239.9	222.8	208.9	203.5
70°	221.7	205.7	188.5	175.7	170.3
72.5°	184.2	172.5	157.5	143.5	138.2
75°	151.0	139.3	127.5	112.5	105.0
77.5°	117.8	110.3	98.5	85.7	85.7
80°	86.8	82.5	69.6	67.5	66.4
82.5°	60.0	57.8	50.3	49.3	49.3
85°	35.3	33.2	33.2	33.2	33.2
87.5°	15.0	16.1	17.1	17.1	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)