

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: P295571

Luminaire Tested: **14RLN-LD5-26-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295571
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-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2714.0 lumens
Efficiency: N/A
Efficacy: 111.8 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

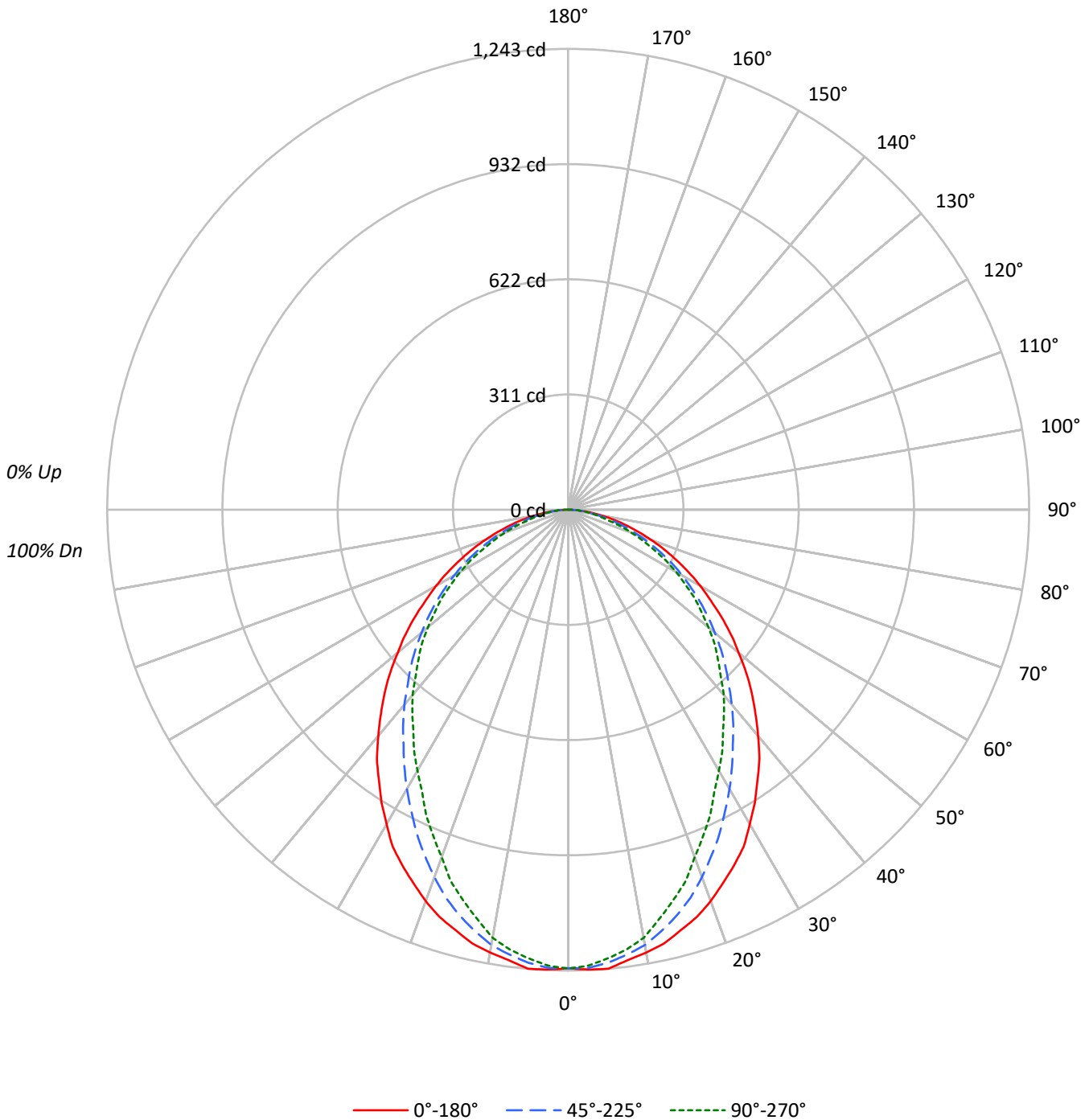
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295571

CATALOG NUMBER: 14RLN-LD5-26-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P295571

CATALOG NUMBER: 14RLN-LD5-26-UNV-L82765-W2A1-U-4500K

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°	3328	3328	3328
5°	3357	3313	3283
10°	3314	3258	3204
15°	3270	3155	3040
20°	3217	3020	2856
25°	3142	2866	2692
30°	3042	2704	2526
35°	2922	2542	2391
40°	2799	2412	2291
45°	2665	2286	2173
50°	2510	2160	2063
55°	2366	2038	1952
60°	2215	1913	1808
65°	2051	1766	1621
70°	1867	1588	1434
75°	1680	1418	1168
80°	1440	1155	1102
85°	1167	1096	1096



TEST NUMBER: P295571

CATALOG NUMBER: 14RLN-LD5-26-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	4.3
10°-20°	317.9	11.7
20°-30°	446.1	16.4
30°-40°	494.8	18.2
40°-50°	475.0	17.5
50°-60°	398.1	14.7
60°-70°	279.4	10.3
70°-80°	145.9	5.4
80°-90°	40.8	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°	879.8	32.4
0°-40°	1374.6	50.7
0°-60°	2247.8	82.8
0°-90°	2714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1243	1227	1227	1219	1215	117
15°	1174	1153	1133	1103	1091	331
25°	1058	1020	965	918	907	487
35°	890	840	774	736	728	557
45°	700	647	601	578	571	539
55°	504	467	434	421	416	451
65°	322	300	277	260	254	320
75°	162	149	136	120	112	171
85°	38	36	36	36	36	45
90°	0	0	0	0	0	



TEST NUMBER: P295571

CATALOG NUMBER: 14RLN-LD5-26-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1236.9	1236.9	1236.9	1236.9	1236.9
2.5°	1241.5	1234.6	1236.9	1236.9	1231.2
5°	1242.7	1226.6	1226.6	1218.6	1215.2
7.5°	1225.5	1212.9	1210.6	1200.2	1196.8
10°	1212.9	1200.2	1192.2	1178.5	1172.7
12.5°	1198.0	1178.5	1163.6	1140.6	1131.5
15°	1173.9	1153.2	1132.6	1102.8	1091.3
17.5°	1152.1	1128.0	1097.1	1063.8	1051.2
20°	1123.4	1094.8	1054.7	1008.8	997.3
22.5°	1090.2	1057.0	1010.0	960.7	951.5
25°	1058.1	1020.3	965.2	918.2	906.8
27.5°	1024.9	979.0	915.9	865.5	854.0
30°	979.0	932.0	870.1	820.8	812.8
32.5°	936.6	889.6	821.9	781.8	772.7
35°	889.6	840.3	773.8	736.0	727.9
37.5°	847.2	789.8	731.4	694.7	690.1
40°	796.7	745.1	686.7	659.2	652.3
42.5°	747.4	695.8	640.8	616.7	608.7
45°	700.4	646.6	600.7	577.8	570.9
47.5°	651.1	601.8	558.3	539.9	535.4
50°	599.6	556.0	515.9	498.7	492.9
52.5°	553.7	509.0	475.7	459.7	452.8
55°	504.4	466.6	434.5	420.7	416.1
57.5°	455.1	424.2	393.2	380.6	373.7
60°	411.5	380.6	355.4	340.5	335.9
62.5°	366.8	340.5	316.4	302.6	296.9
65°	322.1	300.3	277.4	260.2	254.5
67.5°	280.9	256.8	238.4	223.5	217.8
70°	237.3	220.1	201.8	188.0	182.3
72.5°	197.2	184.6	168.5	153.6	147.9
75°	161.6	149.0	136.4	120.4	112.3
77.5°	126.1	118.1	105.5	91.7	91.7
80°	92.9	88.3	74.5	72.2	71.1
82.5°	64.2	61.9	53.9	52.7	52.7
85°	37.8	35.5	35.5	35.5	35.5
87.5°	16.0	17.2	18.3	18.3	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)