

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: P295569

Luminaire Tested: **14RLN-LD5-26-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295569
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-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2610.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

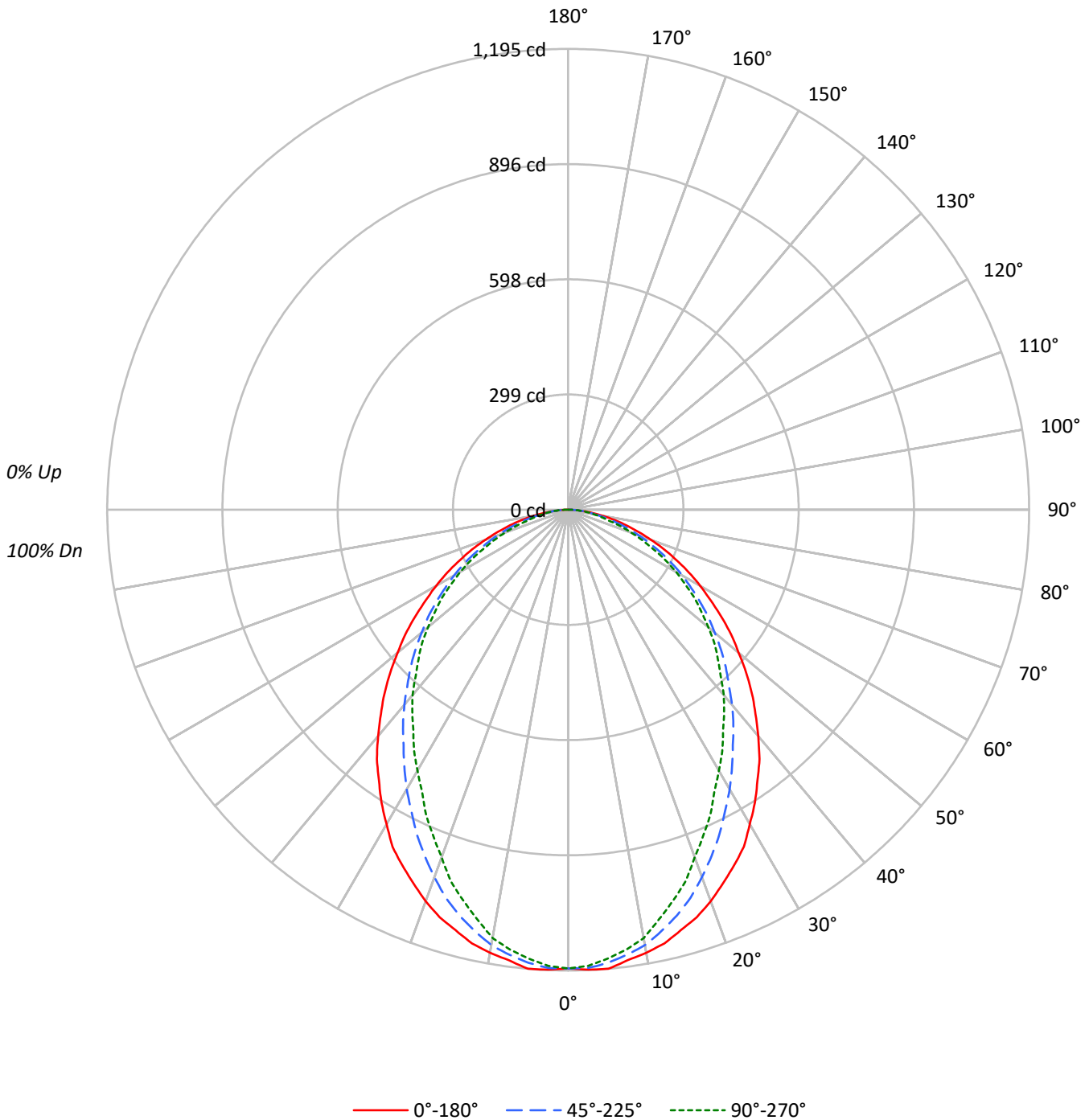
Input Watts (W): 23.901
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3201	3201	3201
5°	3228	3186	3157
10°	3187	3133	3082
15°	3145	3034	2924
20°	3094	2904	2747
25°	3021	2756	2589
30°	2925	2600	2429
35°	2810	2444	2300
40°	2692	2320	2204
45°	2563	2199	2089
50°	2414	2077	1984
55°	2276	1960	1878
60°	2130	1840	1738
65°	1973	1699	1558
70°	1795	1526	1379
75°	1616	1364	1123
80°	1384	1111	1060
85°	1124	1056	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	4.3
10°-20°	305.7	11.7
20°-30°	429.0	16.4
30°-40°	475.9	18.2
40°-50°	456.8	17.5
50°-60°	382.9	14.7
60°-70°	268.7	10.3
70°-80°	140.3	5.4
80°-90°	39.3	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°	846.1	32.4
0°-40°	1322.0	50.6
0°-60°	2161.7	82.8
0°-90°	2610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1195	1180	1180	1172	1169	113
15°	1129	1109	1089	1060	1050	319
25°	1018	981	928	883	872	468
35°	856	808	744	708	700	536
45°	674	622	578	556	549	519
55°	485	449	418	405	400	434
65°	310	289	267	250	245	308
75°	155	143	131	116	108	165
85°	36	34	34	34	34	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.5	1189.5	1189.5	1189.5	1189.5
2.5°	1193.9	1187.3	1189.5	1189.5	1184.0
5°	1195.0	1179.6	1179.6	1171.9	1168.6
7.5°	1178.5	1166.4	1164.2	1154.3	1150.9
10°	1166.4	1154.3	1146.5	1133.3	1127.8
12.5°	1152.1	1133.3	1119.0	1096.9	1088.1
15°	1128.9	1109.1	1089.2	1060.5	1049.5
17.5°	1108.0	1084.8	1055.0	1023.1	1010.9
20°	1080.4	1052.8	1014.2	970.1	959.1
22.5°	1048.4	1016.5	971.3	923.8	915.0
25°	1017.6	981.2	928.3	883.1	872.0
27.5°	985.6	941.5	880.9	832.3	821.3
30°	941.5	896.3	836.8	789.3	781.6
32.5°	900.7	855.5	790.5	751.9	743.0
35°	855.5	808.1	744.1	707.8	700.0
37.5°	814.7	759.6	703.4	668.1	663.7
40°	766.2	716.6	660.4	633.9	627.3
42.5°	718.8	669.2	616.3	593.1	585.4
45°	673.6	621.8	577.7	555.6	549.0
47.5°	626.2	578.8	536.9	519.2	514.8
50°	576.6	534.7	496.1	479.6	474.0
52.5°	532.5	489.5	457.5	442.1	435.5
55°	485.1	448.7	417.8	404.6	400.2
57.5°	437.7	407.9	378.1	366.0	359.4
60°	395.8	366.0	341.8	327.4	323.0
62.5°	352.8	327.4	304.3	291.0	285.5
65°	309.8	288.8	266.8	250.3	244.7
67.5°	270.1	246.9	229.3	215.0	209.5
70°	228.2	211.7	194.0	180.8	175.3
72.5°	189.6	177.5	162.1	147.7	142.2
75°	155.4	143.3	131.2	115.8	108.0
77.5°	121.3	113.6	101.4	88.2	88.2
80°	89.3	84.9	71.7	69.5	68.4
82.5°	61.7	59.5	51.8	50.7	50.7
85°	36.4	34.2	34.2	34.2	34.2
87.5°	15.4	16.5	17.6	17.6	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)