

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: P295572

Luminaire Tested: **14RLN-LD5-26-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295572
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-5000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2751.0 lumens
Efficiency: N/A
Efficacy: 112.9 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

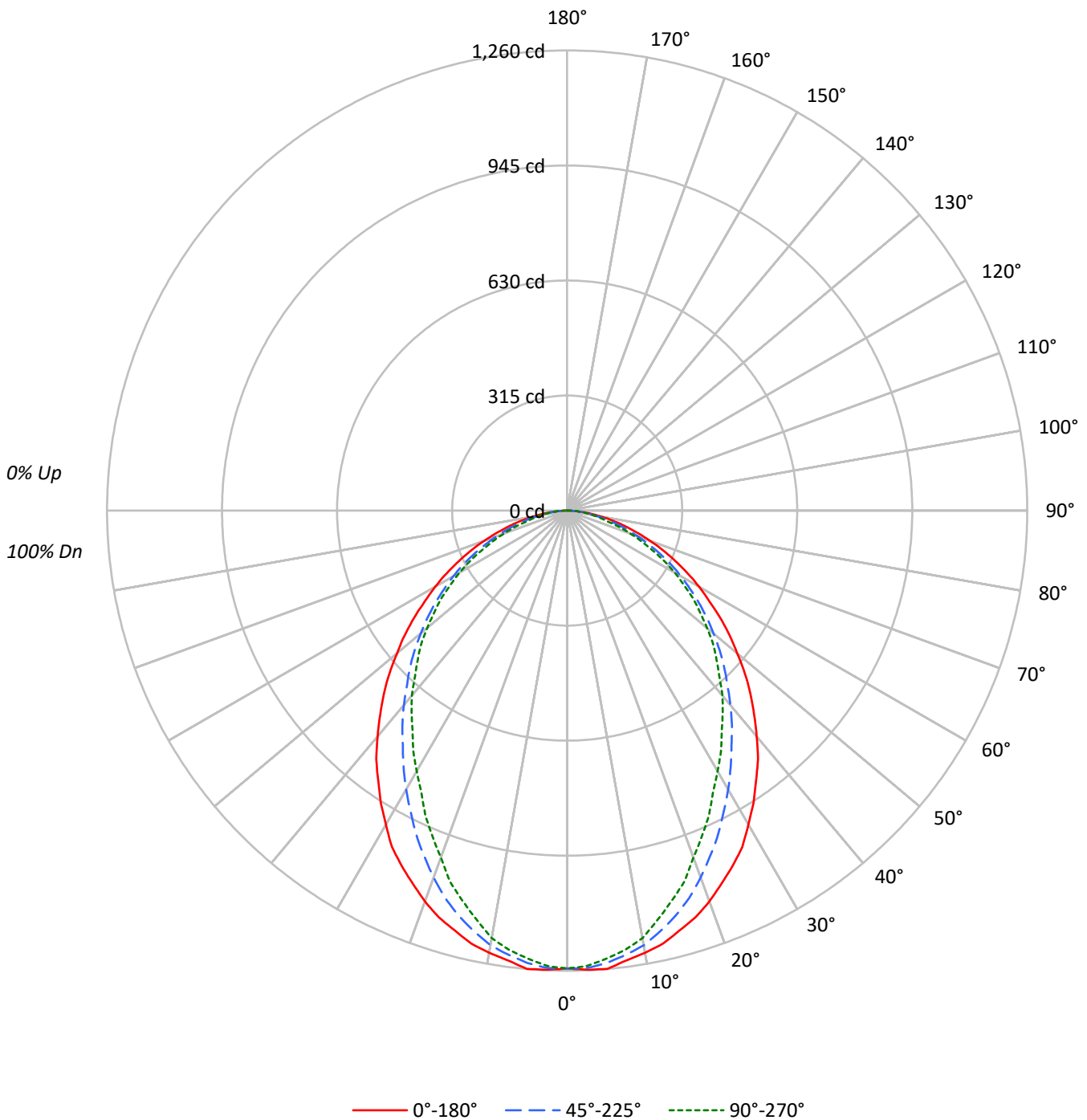
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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°	3374	3374	3374
5°	3403	3358	3327
10°	3359	3302	3248
15°	3315	3198	3082
20°	3261	3061	2895
25°	3184	2905	2729
30°	3083	2741	2560
35°	2962	2576	2424
40°	2837	2445	2323
45°	2702	2317	2202
50°	2544	2189	2092
55°	2399	2066	1979
60°	2245	1939	1833
65°	2079	1791	1643
70°	1892	1609	1454
75°	1703	1438	1184
80°	1458	1170	1116
85°	1183	1112	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	4.3
10°-20°	322.2	11.7
20°-30°	452.2	16.4
30°-40°	501.6	18.2
40°-50°	481.5	17.5
50°-60°	403.5	14.7
60°-70°	283.3	10.3
70°-80°	147.9	5.4
80°-90°	41.4	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°	891.8	32.4
0°-40°	1393.4	50.6
0°-60°	2278.4	82.8
0°-90°	2751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1260	1243	1243	1235	1232	119
15°	1190	1169	1148	1118	1106	336
25°	1072	1034	978	931	919	494
35°	902	852	784	746	738	565
45°	710	655	609	586	579	547
55°	511	473	440	426	422	457
65°	326	304	281	264	258	324
75°	164	151	138	122	114	174
85°	38	36	36	36	36	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1253.8	1253.8	1253.8	1253.8	1253.8
2.5°	1258.4	1251.5	1253.8	1253.8	1248.0
5°	1259.6	1243.3	1243.3	1235.2	1231.7
7.5°	1242.2	1229.4	1227.1	1216.6	1213.1
10°	1229.4	1216.6	1208.5	1194.5	1188.7
12.5°	1214.3	1194.5	1179.4	1156.2	1146.9
15°	1189.9	1169.0	1148.1	1117.8	1106.2
17.5°	1167.8	1143.4	1112.0	1078.3	1065.6
20°	1138.8	1109.7	1069.0	1022.6	1010.9
22.5°	1105.1	1071.4	1023.7	973.8	964.5
25°	1072.5	1034.2	978.4	930.8	919.1
27.5°	1038.8	992.3	928.4	877.3	865.7
30°	992.3	944.7	882.0	832.0	823.9
32.5°	949.4	901.7	833.2	792.5	783.2
35°	901.7	851.7	784.3	746.0	737.9
37.5°	858.7	800.6	741.4	704.2	699.5
40°	807.6	755.3	696.0	668.1	661.2
42.5°	757.6	705.3	649.6	625.2	617.0
45°	710.0	655.4	608.9	585.6	578.7
47.5°	660.0	610.0	565.9	547.3	542.7
50°	607.7	563.6	522.9	505.5	499.7
52.5°	561.2	515.9	482.2	466.0	459.0
55°	511.3	472.9	440.4	426.5	421.8
57.5°	461.3	429.9	398.6	385.8	378.8
60°	417.2	385.8	360.2	345.1	340.5
62.5°	371.8	345.1	320.7	306.8	301.0
65°	326.5	304.4	281.2	263.8	258.0
67.5°	284.7	260.3	241.7	226.6	220.8
70°	240.5	223.1	204.5	190.6	184.8
72.5°	199.9	187.1	170.8	155.7	149.9
75°	163.8	151.1	138.3	122.0	113.9
77.5°	127.8	119.7	106.9	93.0	93.0
80°	94.1	89.5	75.5	73.2	72.0
82.5°	65.1	62.7	54.6	53.5	53.5
85°	38.3	36.0	36.0	36.0	36.0
87.5°	16.3	17.4	18.6	18.6	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)