

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: P295574

Luminaire Tested: **14RLN-LD5-26-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295574
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-5700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2786.0 lumens
Efficiency: N/A
Efficacy: 113.9 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

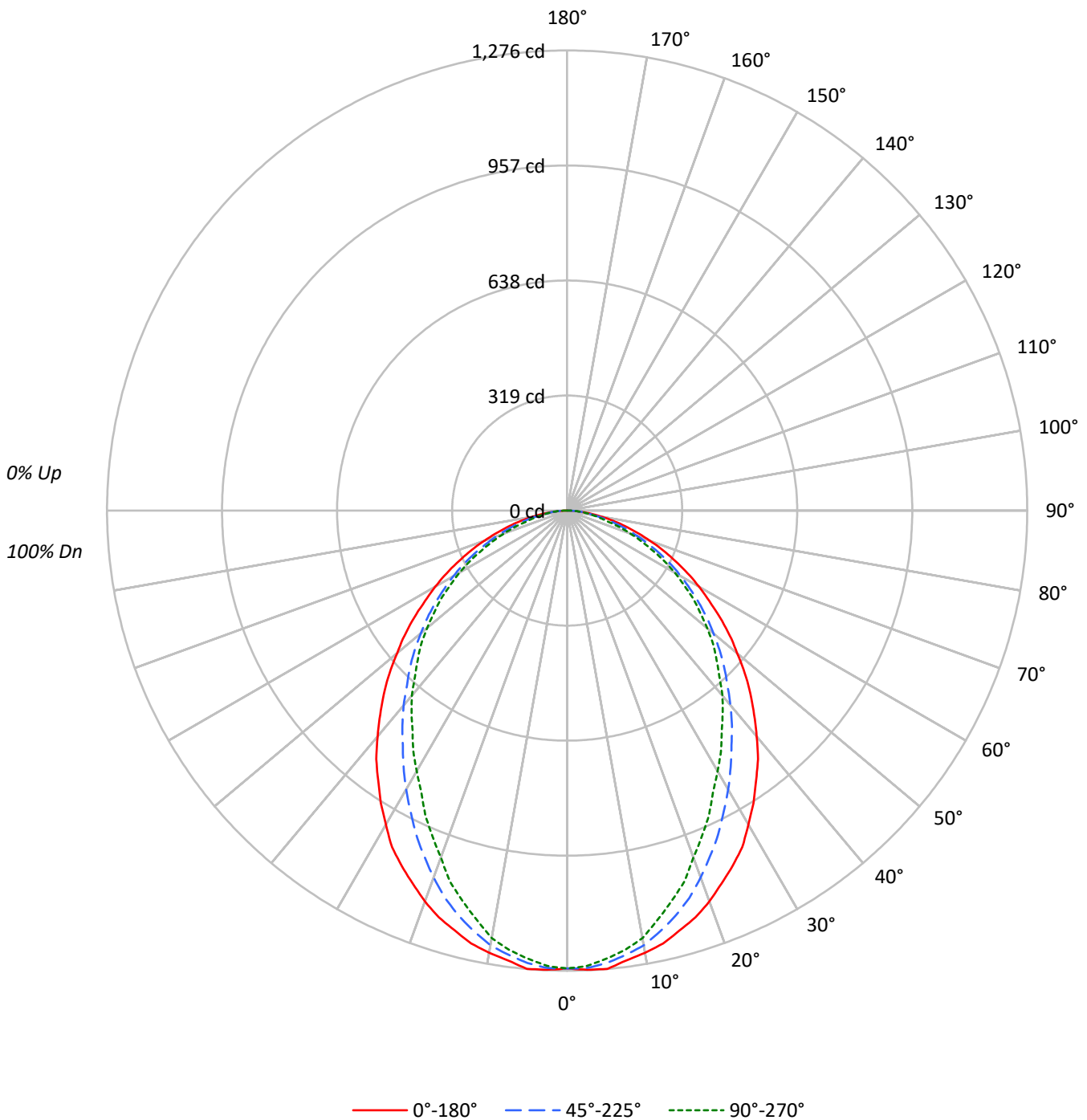
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3417	3417	3417
5°	3446	3401	3370
10°	3402	3344	3289
15°	3357	3239	3121
20°	3302	3100	2932
25°	3225	2942	2764
30°	3123	2775	2592
35°	3000	2609	2455
40°	2873	2476	2352
45°	2736	2347	2230
50°	2577	2217	2118
55°	2429	2092	2004
60°	2274	1963	1856
65°	2106	1813	1663
70°	1917	1629	1472
75°	1725	1456	1199
80°	1477	1185	1131
85°	1198	1127	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	4.3
10°-20°	326.3	11.7
20°-30°	458.0	16.4
30°-40°	508.0	18.2
40°-50°	487.6	17.5
50°-60°	408.7	14.7
60°-70°	286.9	10.3
70°-80°	149.8	5.4
80°-90°	41.9	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°	903.2	32.4
0°-40°	1411.1	50.6
0°-60°	2307.4	82.8
0°-90°	2786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1276	1259	1259	1251	1247	120
15°	1205	1184	1163	1132	1120	340
25°	1086	1047	991	943	931	500
35°	913	863	794	756	747	572
45°	719	664	617	593	586	554
55°	518	479	446	432	427	463
65°	331	308	285	267	261	329
75°	166	153	140	124	115	176
85°	39	36	36	36	36	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.7	1269.7	1269.7	1269.7	1269.7
2.5°	1274.5	1267.4	1269.7	1269.7	1263.9
5°	1275.6	1259.2	1259.2	1250.9	1247.4
7.5°	1258.0	1245.0	1242.7	1232.1	1228.6
10°	1245.0	1232.1	1223.9	1209.7	1203.8
12.5°	1229.7	1209.7	1194.4	1170.9	1161.5
15°	1205.0	1183.8	1162.7	1132.1	1120.3
17.5°	1182.7	1158.0	1126.2	1092.1	1079.1
20°	1153.2	1123.8	1082.6	1035.6	1023.8
22.5°	1119.1	1085.0	1036.7	986.1	976.7
25°	1086.2	1047.3	990.9	942.6	930.8
27.5°	1052.0	1005.0	940.2	888.5	876.7
30°	1005.0	956.7	893.2	842.6	834.3
32.5°	961.4	913.2	843.8	802.6	793.2
35°	913.2	862.6	794.3	755.5	747.3
37.5°	869.6	810.8	750.8	713.1	708.4
40°	817.9	764.9	704.9	676.6	669.6
42.5°	767.3	714.3	657.8	633.1	624.9
45°	719.0	663.7	616.6	593.1	586.0
47.5°	668.4	617.8	573.1	554.3	549.6
50°	615.5	570.7	529.6	511.9	506.0
52.5°	568.4	522.5	488.4	471.9	464.8
55°	517.8	479.0	446.0	431.9	427.2
57.5°	467.2	435.4	403.6	390.7	383.6
60°	422.5	390.7	364.8	349.5	344.8
62.5°	376.6	349.5	324.8	310.7	304.8
65°	330.7	308.3	284.8	267.1	261.2
67.5°	288.3	263.6	244.8	229.5	223.6
70°	243.6	225.9	207.1	193.0	187.1
72.5°	202.4	189.5	173.0	157.7	151.8
75°	165.9	153.0	140.0	123.6	115.3
77.5°	129.4	121.2	108.3	94.1	94.1
80°	95.3	90.6	76.5	74.1	73.0
82.5°	65.9	63.5	55.3	54.1	54.1
85°	38.8	36.5	36.5	36.5	36.5
87.5°	16.5	17.7	18.8	18.8	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)