

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: P296487

Luminaire Tested: **22RLN-LD5-20-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-20-UNV-L92765-W2A1-U-2700K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1572.0 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

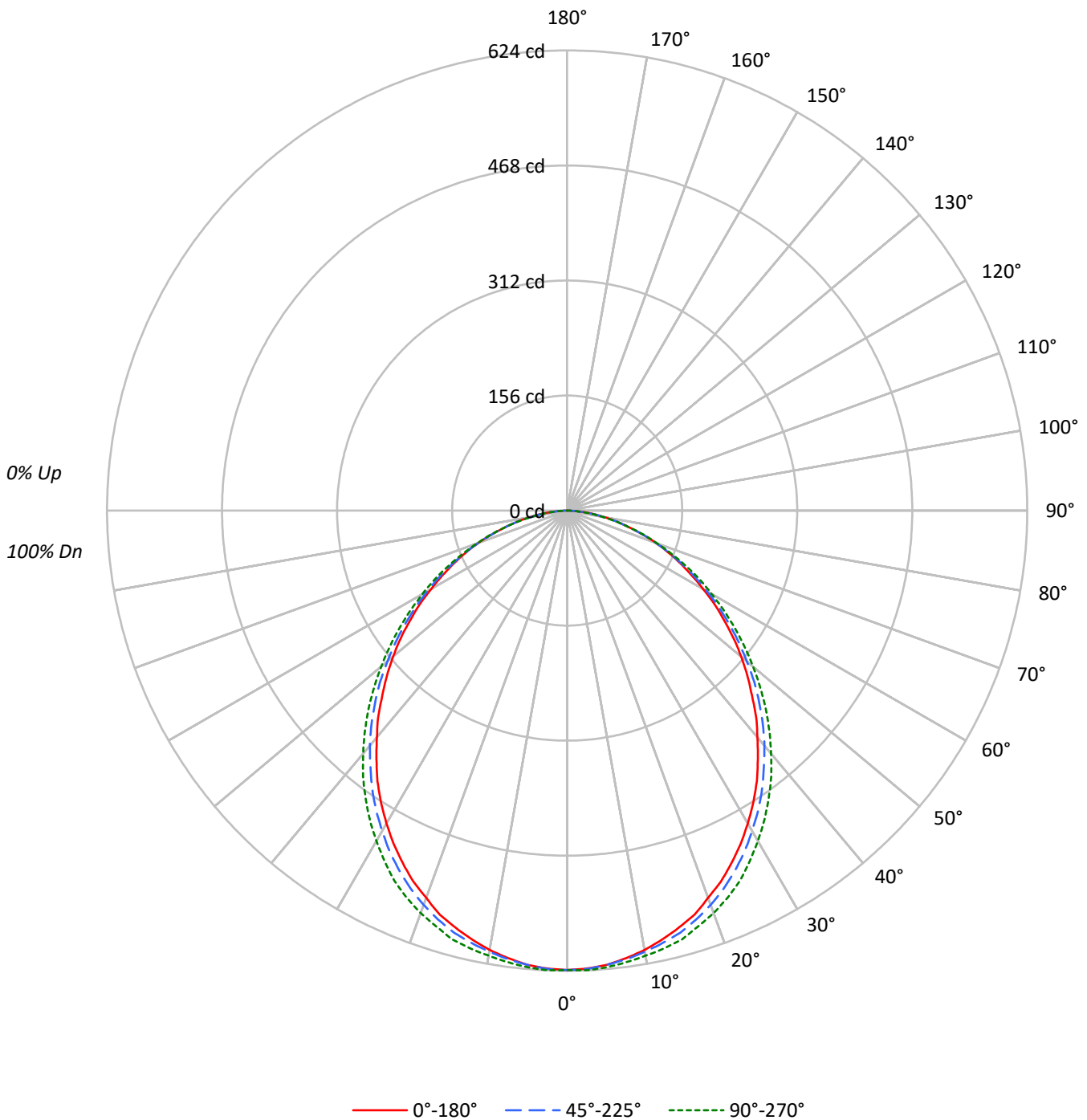
Input Watts (W): 15.438  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1677	1677	1677
5°	1670	1670	1679
10°	1653	1660	1675
15°	1631	1651	1677
20°	1600	1629	1663
25°	1566	1599	1645
30°	1522	1559	1607
35°	1473	1514	1565
40°	1410	1462	1512
45°	1348	1402	1450
50°	1289	1332	1378
55°	1221	1258	1302
60°	1147	1177	1219
65°	1078	1098	1133
70°	1006	1006	1024
75°	896	896	896
80°	789	766	766
85°	630	605	556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.8	3.7
10°-20°	167.1	10.6
20°-30°	248.2	15.8
30°-40°	288.0	18.3
40°-50°	283.6	18.0
50°-60°	240.0	15.3
60°-70°	171.2	10.9
70°-80°	92.0	5.9
80°-90°	23.2	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°	474.0	30.2
0°-40°	762.0	48.5
0°-60°	1285.7	81.8
0°-90°	1572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1572.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	618	618	618	621	622	59
15°	586	587	592	598	602	165
25°	528	529	538	549	554	243
35°	448	449	461	472	476	280
45°	354	357	368	377	381	274
55°	260	261	268	275	278	233
65°	169	169	172	176	178	168
75°	86	85	86	86	86	93
85°	20	20	20	18	18	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	623.1	623.1	623.1	623.1	623.1
2.5°	621.5	621.5	622.3	623.1	623.9
5°	618.4	618.4	618.4	620.8	621.5
7.5°	612.1	612.9	613.7	616.1	617.6
10°	605.1	605.9	607.4	611.3	612.9
12.5°	595.7	598.0	600.4	605.9	608.2
15°	585.5	587.1	592.5	598.0	601.9
17.5°	574.5	575.3	581.6	589.4	591.0
20°	558.8	561.2	569.0	576.9	580.8
22.5°	544.7	546.3	554.9	565.1	568.2
25°	527.5	529.1	538.5	548.6	554.1
27.5°	509.5	511.0	521.2	532.2	536.1
30°	489.9	491.4	501.6	513.4	517.3
32.5°	469.5	471.1	482.0	492.2	497.7
35°	448.3	449.1	460.9	471.8	476.5
37.5°	424.8	427.2	438.1	449.1	454.6
40°	401.3	403.6	416.2	426.4	430.3
42.5°	379.4	382.5	392.7	402.1	406.0
45°	354.3	356.6	368.4	377.0	380.9
47.5°	331.5	333.9	344.1	352.7	355.1
50°	308.0	309.6	318.2	326.1	329.2
52.5°	284.5	285.3	293.1	301.0	303.3
55°	260.2	261.0	268.1	275.1	277.5
57.5°	237.5	237.5	243.8	249.2	251.6
60°	213.2	213.2	218.7	224.2	226.5
62.5°	190.5	190.5	195.9	199.9	203.0
65°	169.3	169.3	172.4	175.6	177.9
67.5°	148.9	146.6	149.7	153.6	152.8
70°	127.8	125.4	127.8	129.3	130.1
72.5°	106.6	105.0	106.6	107.4	108.9
75°	86.2	85.4	86.2	86.2	86.2
77.5°	69.0	66.6	68.2	67.4	66.6
80°	50.9	50.2	49.4	48.6	49.4
82.5°	35.3	34.5	34.5	32.9	32.9
85°	20.4	19.6	19.6	18.0	18.0
87.5°	7.8	7.8	7.1	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)