

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: P296502

Luminaire Tested: **22RLN-LD5-25-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296502  
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-LD5-25-UNV-L92765-W2A1-U-5500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2314.0 lumens  
Efficiency: N/A  
Efficacy: 119.1 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

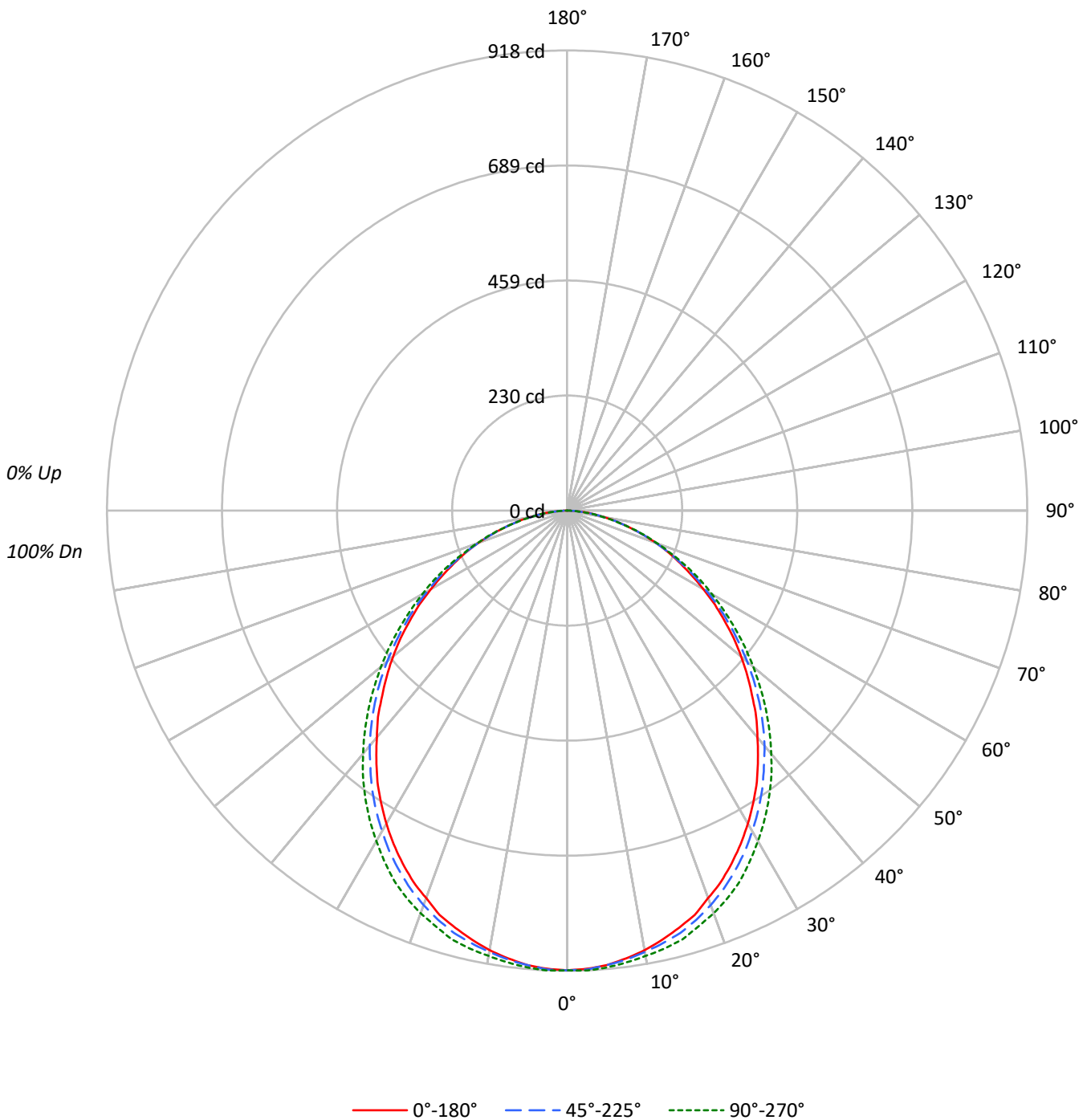
Input Watts (W): 19.437  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2468	2468	2468
5°	2459	2459	2471
10°	2434	2443	2465
15°	2401	2430	2469
20°	2356	2399	2448
25°	2306	2353	2422
30°	2241	2294	2366
35°	2168	2229	2304
40°	2075	2152	2225
45°	1985	2064	2134
50°	1898	1961	2029
55°	1797	1851	1916
60°	1689	1732	1794
65°	1587	1616	1668
70°	1480	1480	1507
75°	1319	1319	1319
80°	1162	1127	1127
85°	926	889	818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	3.7
10°-20°	245.9	10.6
20°-30°	365.3	15.8
30°-40°	424.0	18.3
40°-50°	417.5	18.0
50°-60°	353.3	15.3
60°-70°	252.0	10.9
70°-80°	135.4	5.9
80°-90°	34.1	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°	697.8	30.2
0°-40°	1121.7	48.5
0°-60°	1892.5	81.8
0°-90°	2314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2314.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	910	910	910	914	915	86
15°	862	864	872	880	886	243
25°	776	779	793	808	816	357
35°	660	661	678	694	702	412
45°	522	525	542	555	561	403
55°	383	384	395	405	408	343
65°	249	249	254	258	262	247
75°	127	126	127	127	127	136
85°	30	29	29	26	26	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	917.2	917.2	917.2	917.2	917.2
2.5°	914.9	914.9	916.1	917.2	918.4
5°	910.3	910.3	910.3	913.8	914.9
7.5°	901.1	902.2	903.4	906.8	909.1
10°	890.7	891.8	894.1	899.9	902.2
12.5°	876.8	880.3	883.8	891.8	895.3
15°	861.8	864.1	872.2	880.3	886.1
17.5°	845.7	846.8	856.1	867.6	869.9
20°	822.6	826.1	837.6	849.1	854.9
22.5°	801.8	804.2	816.8	831.8	836.5
25°	776.5	778.8	792.6	807.6	815.7
27.5°	749.9	752.2	767.2	783.4	789.2
30°	721.1	723.4	738.4	755.7	761.5
32.5°	691.1	693.4	709.5	724.5	732.6
35°	659.9	661.1	678.4	694.5	701.5
37.5°	625.3	628.8	644.9	661.1	669.2
40°	590.7	594.2	612.6	627.6	633.4
42.5°	558.4	563.0	578.0	591.9	597.6
45°	521.5	524.9	542.3	554.9	560.7
47.5°	488.0	491.5	506.5	519.2	522.6
50°	453.4	455.7	468.4	480.0	484.6
52.5°	418.8	420.0	431.5	443.0	446.5
55°	383.0	384.2	394.6	405.0	408.4
57.5°	349.6	349.6	358.8	366.9	370.3
60°	313.8	313.8	321.9	330.0	333.4
62.5°	280.4	280.4	288.4	294.2	298.8
65°	249.2	249.2	253.8	258.4	261.9
67.5°	219.2	215.7	220.4	226.1	225.0
70°	188.1	184.6	188.1	190.4	191.5
72.5°	156.9	154.6	156.9	158.1	160.4
75°	126.9	125.8	126.9	126.9	126.9
77.5°	101.5	98.1	100.4	99.2	98.1
80°	75.0	73.8	72.7	71.5	72.7
82.5°	51.9	50.8	50.8	48.5	48.5
85°	30.0	28.8	28.8	26.5	26.5
87.5°	11.5	11.5	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)