

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: P296416

Luminaire Tested: **22RLN-LD5-25-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296416  
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-L82765-W2A1-U-4500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2504.0 lumens  
Efficiency: N/A  
Efficacy: 130.1 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

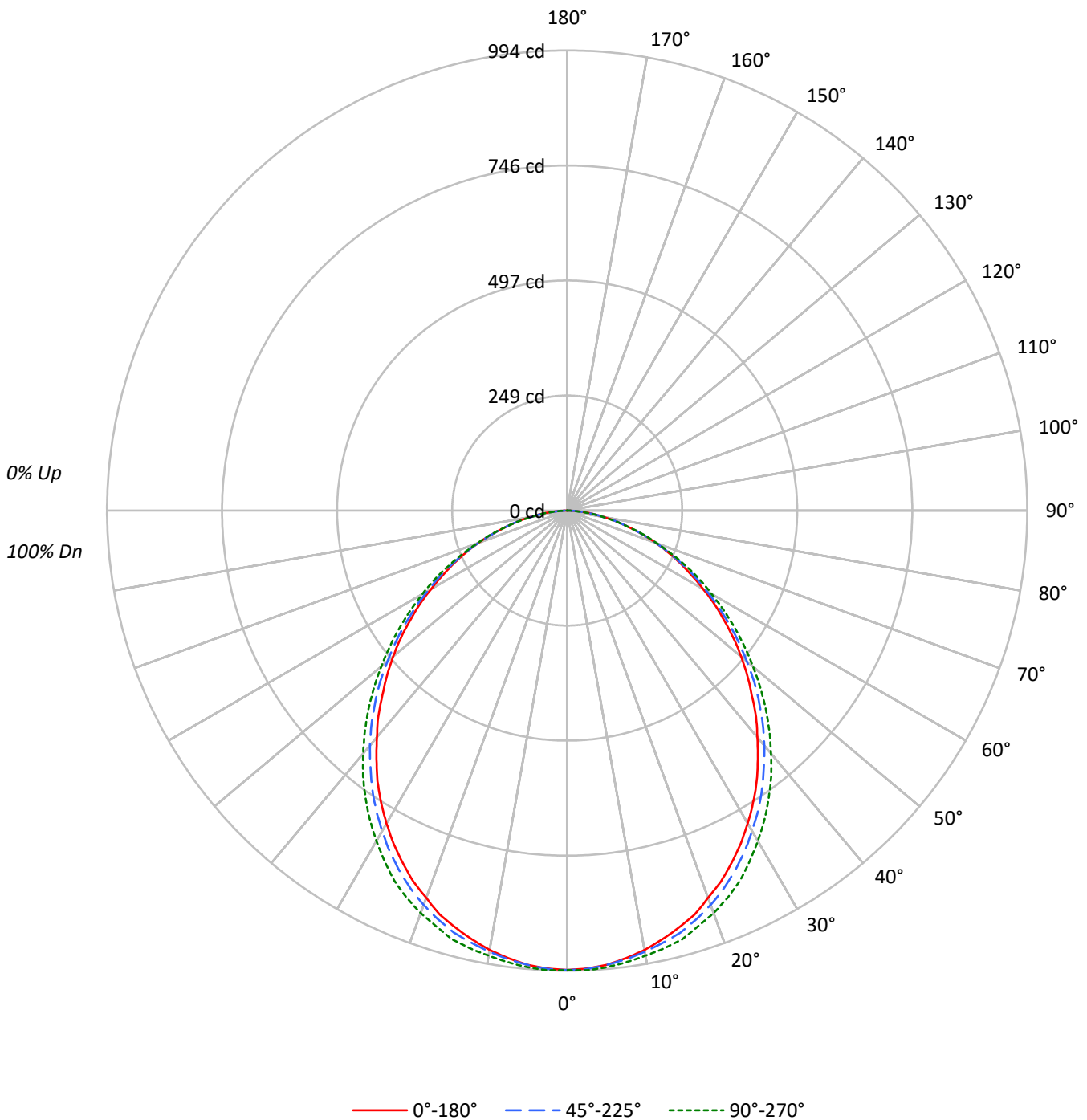
Input Watts (W): 19.251  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2671	2671	2671
5°	2661	2661	2674
10°	2634	2644	2668
15°	2598	2629	2671
20°	2549	2596	2649
25°	2495	2547	2621
30°	2425	2483	2560
35°	2346	2412	2494
40°	2245	2329	2408
45°	2148	2233	2309
50°	2054	2122	2195
55°	1945	2003	2074
60°	1828	1875	1942
65°	1717	1749	1805
70°	1601	1601	1630
75°	1428	1428	1428
80°	1258	1220	1220
85°	1003	963	886



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.6	3.7
10°-20°	266.1	10.6
20°-30°	395.3	15.8
30°-40°	458.8	18.3
40°-50°	451.8	18.0
50°-60°	382.3	15.3
60°-70°	272.7	10.9
70°-80°	146.5	5.9
80°-90°	36.9	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°	755.0	30.2
0°-40°	1213.8	48.5
0°-60°	2047.9	81.8
0°-90°	2504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2504.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	985	985	985	989	990	93
15°	933	935	944	953	959	263
25°	840	843	858	874	883	387
35°	714	715	734	752	759	446
45°	564	568	587	600	607	436
55°	414	416	427	438	442	371
65°	270	270	275	280	283	268
75°	137	136	137	137	137	147
85°	32	31	31	29	29	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	992.5	992.5	992.5	992.5	992.5
2.5°	990.0	990.0	991.3	992.5	993.8
5°	985.0	985.0	985.0	988.8	990.0
7.5°	975.1	976.3	977.5	981.3	983.8
10°	963.8	965.1	967.6	973.8	976.3
12.5°	948.8	952.6	956.3	965.1	968.8
15°	932.6	935.1	943.8	952.6	958.8
17.5°	915.1	916.4	926.4	938.8	941.3
20°	890.2	893.9	906.4	918.9	925.1
22.5°	867.7	870.2	883.9	900.1	905.1
25°	840.2	842.7	857.7	873.9	882.7
27.5°	811.5	814.0	830.2	847.7	854.0
30°	780.3	782.8	799.0	817.7	824.0
32.5°	747.8	750.3	767.8	784.0	792.8
35°	714.1	715.4	734.1	751.6	759.1
37.5°	676.7	680.4	697.9	715.4	724.1
40°	639.2	643.0	662.9	679.2	685.4
42.5°	604.3	609.3	625.5	640.5	646.7
45°	564.3	568.1	586.8	600.5	606.8
47.5°	528.1	531.8	548.1	561.8	565.6
50°	490.6	493.1	506.9	519.4	524.4
52.5°	453.2	454.4	466.9	479.4	483.2
55°	414.5	415.7	427.0	438.2	442.0
57.5°	378.3	378.3	388.3	397.0	400.8
60°	339.6	339.6	348.3	357.1	360.8
62.5°	303.4	303.4	312.1	318.4	323.4
65°	269.7	269.7	274.7	279.7	283.4
67.5°	237.2	233.5	238.5	244.7	243.5
70°	203.5	199.8	203.5	206.0	207.2
72.5°	169.8	167.3	169.8	171.0	173.5
75°	137.3	136.1	137.3	137.3	137.3
77.5°	109.9	106.1	108.6	107.4	106.1
80°	81.2	79.9	78.7	77.4	78.7
82.5°	56.2	54.9	54.9	52.4	52.4
85°	32.5	31.2	31.2	28.7	28.7
87.5°	12.5	12.5	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)