

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: P296419

Luminaire Tested: **22RLN-LD5-25-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296419  
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-5700K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2570.0 lumens  
Efficiency: N/A  
Efficacy: 132.2 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

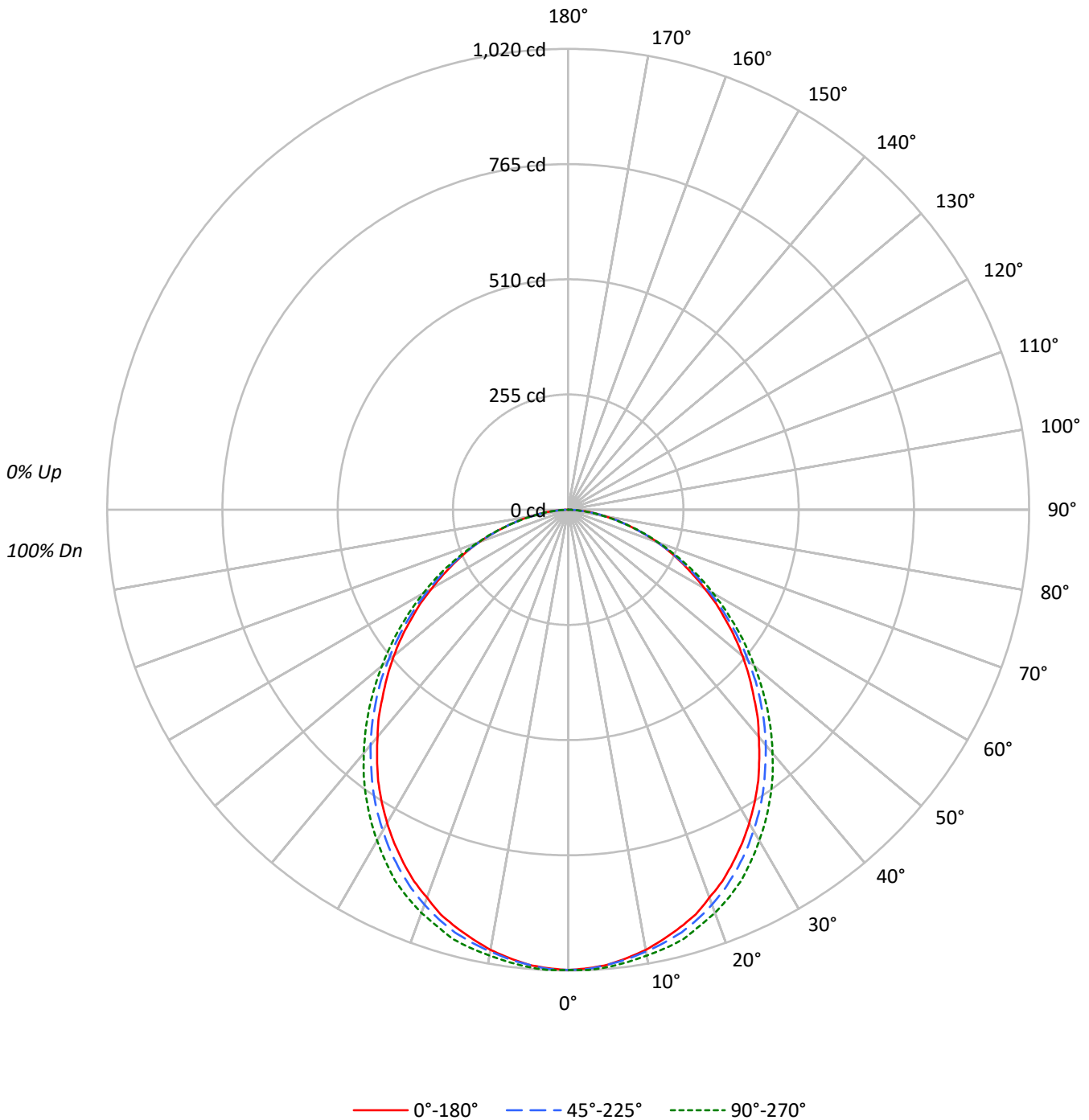
Input Watts (W): 19.437  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	2741	2741	2741
5°	2731	2731	2745
10°	2703	2714	2738
15°	2667	2699	2742
20°	2616	2664	2719
25°	2561	2614	2690
30°	2489	2548	2628
35°	2408	2475	2559
40°	2305	2390	2471
45°	2204	2292	2370
50°	2108	2178	2253
55°	1996	2056	2128
60°	1876	1924	1993
65°	1762	1795	1852
70°	1644	1644	1674
75°	1466	1466	1466
80°	1291	1251	1251
85°	1028	988	911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.1	3.7
10°-20°	273.1	10.6
20°-30°	405.7	15.8
30°-40°	470.9	18.3
40°-50°	463.7	18.0
50°-60°	392.4	15.3
60°-70°	279.8	10.9
70°-80°	150.4	5.9
80°-90°	37.9	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°	775.0	30.2
0°-40°	1245.8	48.5
0°-60°	2101.9	81.8
0°-90°	2570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2570.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1011	1011	1011	1015	1016	96
15°	957	960	969	978	984	270
25°	862	865	880	897	906	397
35°	733	734	753	771	779	457
45°	579	583	602	616	623	448
55°	425	427	438	450	454	381
65°	277	277	282	287	291	275
75°	141	140	141	141	141	151
85°	33	32	32	30	30	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1018.7	1018.7	1018.7	1018.7	1018.7
2.5°	1016.1	1016.1	1017.4	1018.7	1020.0
5°	1011.0	1011.0	1011.0	1014.8	1016.1
7.5°	1000.8	1002.0	1003.3	1007.2	1009.7
10°	989.2	990.5	993.1	999.5	1002.0
12.5°	973.8	977.7	981.5	990.5	994.3
15°	957.2	959.7	968.7	977.7	984.1
17.5°	939.2	940.5	950.8	963.6	966.2
20°	913.6	917.5	930.3	943.1	949.5
22.5°	890.6	893.1	907.2	923.9	929.0
25°	862.4	864.9	880.3	897.0	905.9
27.5°	832.9	835.5	852.1	870.1	876.5
30°	800.9	803.4	820.1	839.3	845.7
32.5°	767.5	770.1	788.0	804.7	813.7
35°	732.9	734.2	753.4	771.4	779.1
37.5°	694.5	698.3	716.3	734.2	743.2
40°	656.1	659.9	680.4	697.1	703.5
42.5°	620.2	625.3	642.0	657.3	663.8
45°	579.2	583.0	602.2	616.3	622.7
47.5°	542.0	545.9	562.5	576.6	580.5
50°	503.6	506.1	520.2	533.1	538.2
52.5°	465.1	466.4	479.2	492.0	495.9
55°	425.4	426.7	438.2	449.8	453.6
57.5°	388.3	388.3	398.5	407.5	411.3
60°	348.5	348.5	357.5	366.5	370.3
62.5°	311.4	311.4	320.3	326.8	331.9
65°	276.8	276.8	281.9	287.0	290.9
67.5°	243.5	239.6	244.7	251.1	249.9
70°	208.9	205.0	208.9	211.4	212.7
72.5°	174.3	171.7	174.3	175.5	178.1
75°	141.0	139.7	141.0	141.0	141.0
77.5°	112.8	108.9	111.5	110.2	108.9
80°	83.3	82.0	80.7	79.4	80.7
82.5°	57.7	56.4	56.4	53.8	53.8
85°	33.3	32.0	32.0	29.5	29.5
87.5°	12.8	12.8	11.5	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)