

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: P296381

Luminaire Tested: **22RLN-LD5-25-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296381  
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-L83050-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: 2613.0 lumens  
Efficiency: N/A  
Efficacy: 131.9 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

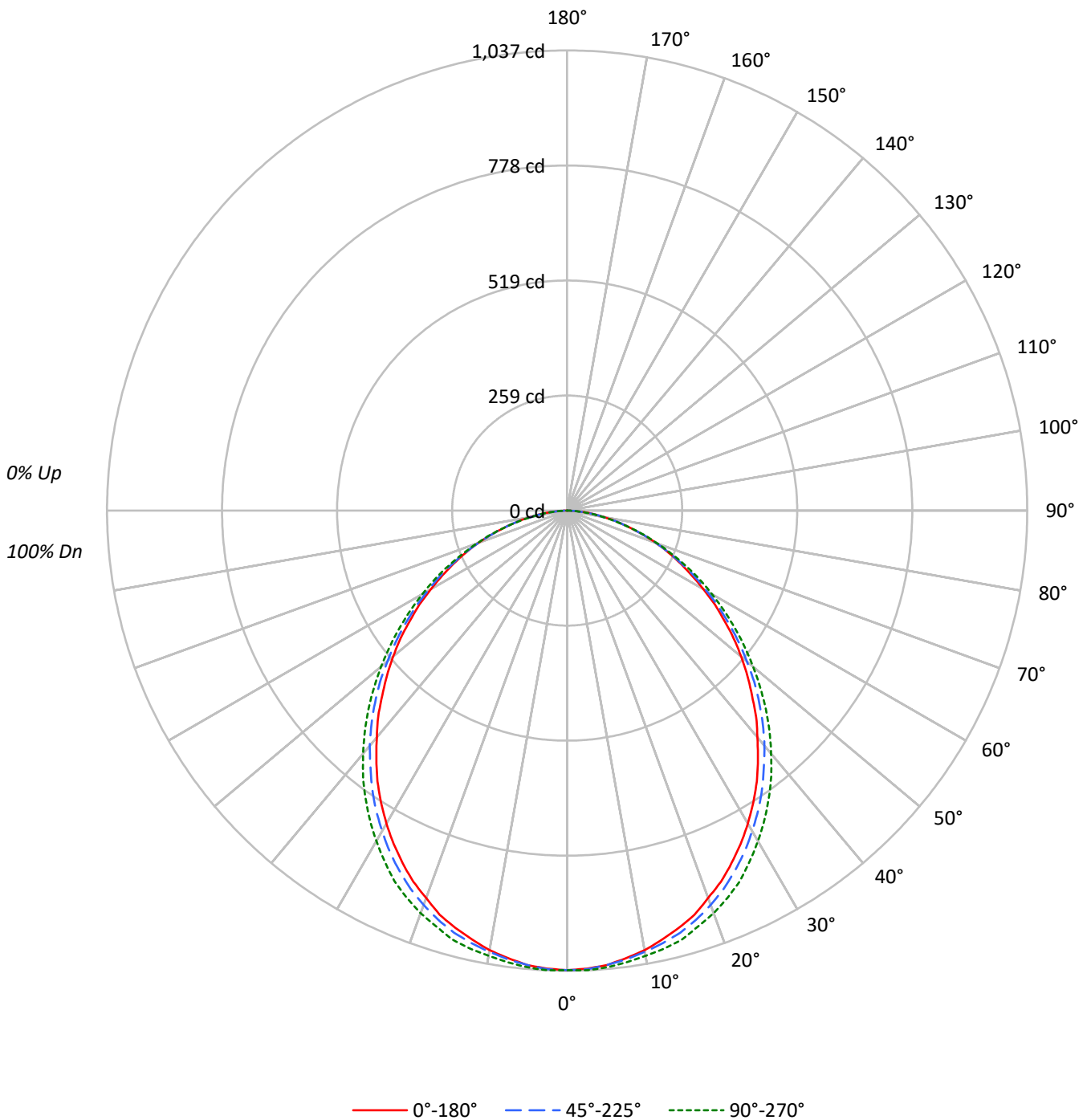
Input Watts (W): 19.809  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2787	2787	2787
5°	2777	2777	2791
10°	2748	2759	2784
15°	2711	2744	2788
20°	2660	2708	2765
25°	2603	2657	2735
30°	2530	2591	2672
35°	2448	2517	2602
40°	2343	2430	2512
45°	2241	2330	2410
50°	2143	2214	2291
55°	2029	2091	2164
60°	1907	1956	2026
65°	1792	1825	1883
70°	1671	1671	1702
75°	1490	1490	1490
80°	1313	1272	1272
85°	1047	1007	926



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.7	3.7
10°-20°	277.7	10.6
20°-30°	412.5	15.8
30°-40°	478.8	18.3
40°-50°	471.4	18.0
50°-60°	399.0	15.3
60°-70°	284.5	10.9
70°-80°	152.9	5.9
80°-90°	38.5	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°	787.9	30.2
0°-40°	1266.7	48.5
0°-60°	2137.1	81.8
0°-90°	2613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2613.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1028	1028	1028	1032	1033	97
15°	973	976	985	994	1001	274
25°	877	879	895	912	921	404
35°	745	746	766	784	792	465
45°	589	593	612	627	633	455
55°	432	434	446	457	461	387
65°	281	281	287	292	296	279
75°	143	142	143	143	143	154
85°	34	33	33	30	30	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1035.7	1035.7	1035.7	1035.7	1035.7
2.5°	1033.1	1033.1	1034.4	1035.7	1037.0
5°	1027.9	1027.9	1027.9	1031.8	1033.1
7.5°	1017.5	1018.8	1020.1	1024.0	1026.6
10°	1005.8	1007.1	1009.7	1016.2	1018.8
12.5°	990.1	994.0	998.0	1007.1	1011.0
15°	973.2	975.8	984.9	994.0	1000.6
17.5°	955.0	956.3	966.7	979.7	982.3
20°	928.9	932.8	945.8	958.9	965.4
22.5°	905.5	908.1	922.4	939.3	944.5
25°	876.8	879.4	895.0	912.0	921.1
27.5°	846.8	849.4	866.4	884.6	891.1
30°	814.3	816.9	833.8	853.3	859.9
32.5°	780.4	783.0	801.2	818.2	827.3
35°	745.2	746.5	766.1	784.3	792.1
37.5°	706.1	710.0	728.3	746.5	755.6
40°	667.0	670.9	691.8	708.7	715.2
42.5°	630.6	635.8	652.7	668.3	674.9
45°	588.9	592.8	612.3	626.7	633.2
47.5°	551.1	555.0	571.9	586.3	590.2
50°	512.0	514.6	528.9	542.0	547.2
52.5°	472.9	474.2	487.3	500.3	504.2
55°	432.5	433.8	445.6	457.3	461.2
57.5°	394.8	394.8	405.2	414.3	418.2
60°	354.4	354.4	363.5	372.6	376.5
62.5°	316.6	316.6	325.7	332.2	337.4
65°	281.4	281.4	286.6	291.8	295.7
67.5°	247.5	243.6	248.8	255.4	254.0
70°	212.4	208.5	212.4	215.0	216.3
72.5°	177.2	174.6	177.2	178.5	181.1
75°	143.3	142.0	143.3	143.3	143.3
77.5°	114.6	110.7	113.3	112.0	110.7
80°	84.7	83.4	82.1	80.8	82.1
82.5°	58.6	57.3	57.3	54.7	54.7
85°	33.9	32.6	32.6	30.0	30.0
87.5°	13.0	13.0	11.7	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)