

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: P296501

Luminaire Tested: **22RLN-LD5-25-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296501
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-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2279.0 lumens
Efficiency: N/A
Efficacy: 117.8 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

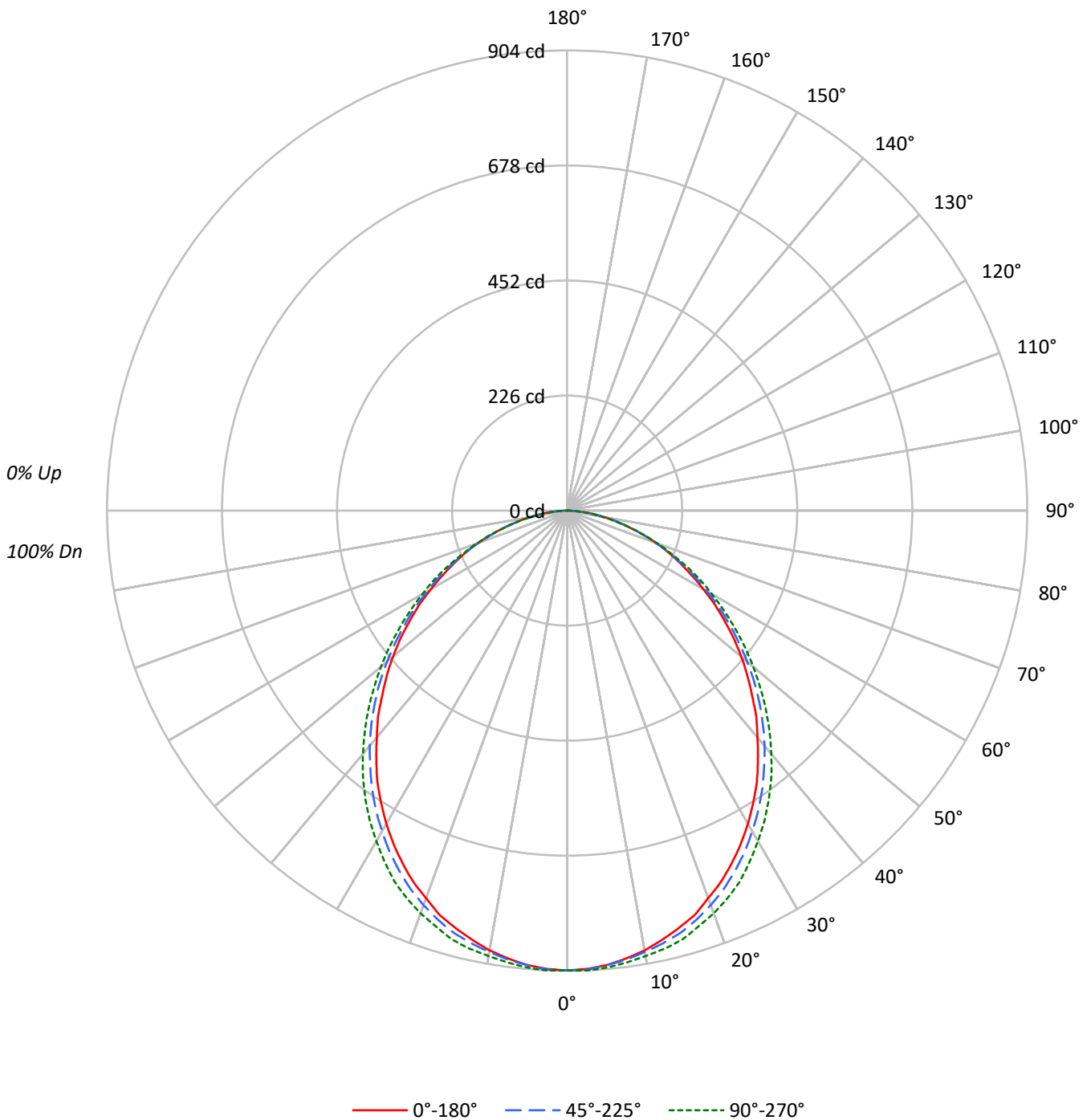
Input Watts (W): 19.344
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296501

CATALOG NUMBER: 22RLN-LD5-25-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P296501

CATALOG NUMBER: 22RLN-LD5-25-UNV-L92765-W2A1-U-5000K

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	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°	2431	2431	2431
5°	2422	2422	2434
10°	2397	2406	2428
15°	2365	2393	2431
20°	2320	2362	2411
25°	2271	2318	2385
30°	2207	2260	2330
35°	2135	2195	2270
40°	2044	2120	2191
45°	1955	2033	2101
50°	1870	1931	1998
55°	1770	1823	1887
60°	1664	1706	1767
65°	1563	1592	1642
70°	1457	1457	1484
75°	1300	1300	1300
80°	1145	1110	1110
85°	911	877	806



TEST NUMBER: P296501

CATALOG NUMBER: 22RLN-LD5-25-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	3.7
10°-20°	242.2	10.6
20°-30°	359.8	15.8
30°-40°	417.6	18.3
40°-50°	411.2	18.0
50°-60°	347.9	15.3
60°-70°	248.1	10.9
70°-80°	133.4	5.9
80°-90°	33.6	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°	687.2	30.2
0°-40°	1104.8	48.5
0°-60°	1863.9	81.8
0°-90°	2279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	896	896	896	900	901	85
15°	849	851	859	867	873	239
25°	765	767	781	795	803	352
35°	650	651	668	684	691	406
45°	514	517	534	547	552	397
55°	377	378	389	399	402	338
65°	245	245	250	254	258	244
75°	125	124	125	125	125	134
85°	30	28	28	26	26	35
90°	0	0	0	0	0	



TEST NUMBER: P296501

CATALOG NUMBER: 22RLN-LD5-25-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	903.3	903.3	903.3	903.3	903.3
2.5°	901.1	901.1	902.2	903.3	904.5
5°	896.5	896.5	896.5	899.9	901.1
7.5°	887.4	888.6	889.7	893.1	895.4
10°	877.2	878.3	880.6	886.3	888.6
12.5°	863.6	867.0	870.4	878.3	881.8
15°	848.8	851.1	859.0	867.0	872.7
17.5°	832.9	834.0	843.1	854.5	856.8
20°	810.2	813.6	824.9	836.3	842.0
22.5°	789.7	792.0	804.5	819.3	823.8
25°	764.7	767.0	780.6	795.4	803.4
27.5°	738.6	740.9	755.6	771.5	777.2
30°	710.2	712.5	727.2	744.3	749.9
32.5°	680.6	682.9	698.8	713.6	721.5
35°	650.0	651.1	668.1	684.0	690.9
37.5°	615.9	619.3	635.2	651.1	659.0
40°	581.8	585.2	603.4	618.1	623.8
42.5°	550.0	554.5	569.3	582.9	588.6
45°	513.6	517.0	534.1	546.6	552.2
47.5°	480.6	484.1	498.8	511.3	514.7
50°	446.6	448.8	461.3	472.7	477.2
52.5°	412.5	413.6	425.0	436.3	439.7
55°	377.2	378.4	388.6	398.8	402.2
57.5°	344.3	344.3	353.4	361.3	364.7
60°	309.1	309.1	317.0	325.0	328.4
62.5°	276.1	276.1	284.1	289.8	294.3
65°	245.4	245.4	250.0	254.5	257.9
67.5°	215.9	212.5	217.0	222.7	221.6
70°	185.2	181.8	185.2	187.5	188.6
72.5°	154.5	152.3	154.5	155.7	157.9
75°	125.0	123.9	125.0	125.0	125.0
77.5°	100.0	96.6	98.9	97.7	96.6
80°	73.9	72.7	71.6	70.4	71.6
82.5°	51.1	50.0	50.0	47.7	47.7
85°	29.5	28.4	28.4	26.1	26.1
87.5°	11.4	11.4	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)