

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: P296503

Luminaire Tested: **22RLN-LD5-25-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296503
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-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2324.0 lumens
Efficiency: N/A
Efficacy: 119.6 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

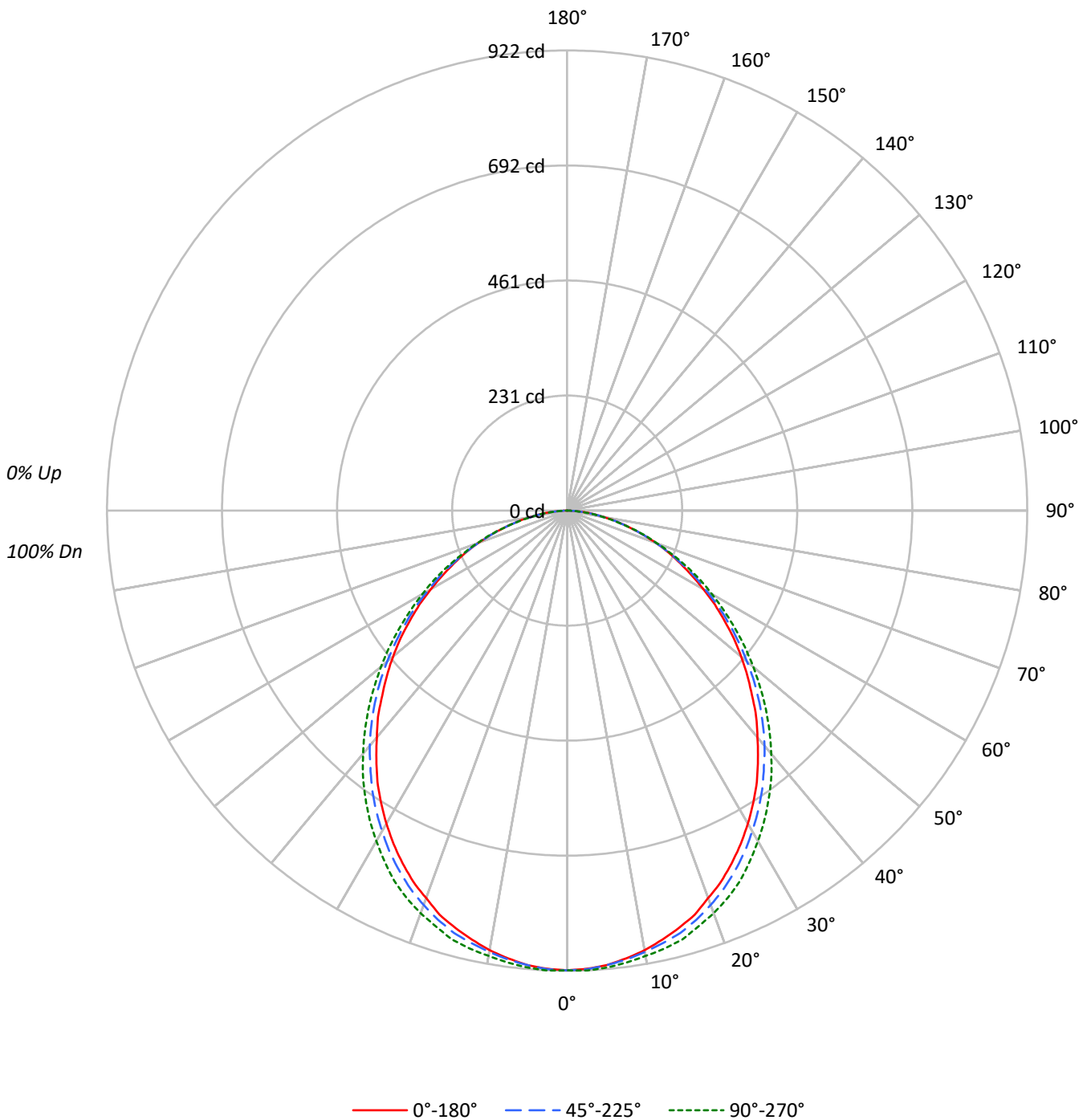
Input Watts (W): 19.437
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2479	2479	2479
5°	2469	2469	2482
10°	2444	2454	2476
15°	2411	2440	2479
20°	2366	2409	2459
25°	2315	2363	2432
30°	2250	2304	2376
35°	2177	2238	2314
40°	2084	2161	2235
45°	1993	2073	2143
50°	1906	1969	2038
55°	1805	1859	1924
60°	1696	1740	1802
65°	1594	1623	1675
70°	1486	1486	1513
75°	1326	1326	1326
80°	1167	1131	1131
85°	929	895	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.7
10°-20°	247.0	10.6
20°-30°	366.9	15.8
30°-40°	425.8	18.3
40°-50°	419.3	18.0
50°-60°	354.8	15.3
60°-70°	253.1	10.9
70°-80°	136.0	5.9
80°-90°	34.3	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°	700.8	30.2
0°-40°	1126.6	48.5
0°-60°	1900.7	81.8
0°-90°	2324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	914	914	914	918	919	87
15°	866	868	876	884	890	244
25°	780	782	796	811	819	359
35°	663	664	681	698	704	414
45°	524	527	545	557	563	405
55°	385	386	396	407	410	345
65°	250	250	255	260	263	248
75°	128	126	128	128	128	137
85°	30	29	29	27	27	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.2	921.2	921.2	921.2	921.2
2.5°	918.9	918.9	920.0	921.2	922.3
5°	914.2	914.2	914.2	917.7	918.9
7.5°	905.0	906.1	907.3	910.8	913.1
10°	894.5	895.7	898.0	903.8	906.1
12.5°	880.6	884.1	887.6	895.7	899.2
15°	865.6	867.9	876.0	884.1	889.9
17.5°	849.3	850.5	859.8	871.4	873.7
20°	826.2	829.6	841.2	852.8	858.6
22.5°	805.3	807.6	820.4	835.4	840.1
25°	779.8	782.1	796.0	811.1	819.2
27.5°	753.2	755.5	770.5	786.8	792.6
30°	724.2	726.5	741.6	759.0	764.8
32.5°	694.1	696.4	712.6	727.7	735.8
35°	662.8	663.9	681.3	697.5	704.5
37.5°	628.0	631.5	647.7	663.9	672.1
40°	593.3	596.7	615.3	630.3	636.1
42.5°	560.8	565.5	580.5	594.4	600.2
45°	523.7	527.2	544.6	557.3	563.1
47.5°	490.1	493.6	508.7	521.4	524.9
50°	455.4	457.7	470.4	482.0	486.7
52.5°	420.6	421.8	433.4	444.9	448.4
55°	384.7	385.9	396.3	406.7	410.2
57.5°	351.1	351.1	360.4	368.5	371.9
60°	315.2	315.2	323.3	331.4	334.9
62.5°	281.6	281.6	289.7	295.5	300.1
65°	250.3	250.3	254.9	259.6	263.0
67.5°	220.2	216.7	221.3	227.1	226.0
70°	188.9	185.4	188.9	191.2	192.3
72.5°	157.6	155.3	157.6	158.7	161.1
75°	127.5	126.3	127.5	127.5	127.5
77.5°	102.0	98.5	100.8	99.6	98.5
80°	75.3	74.2	73.0	71.8	73.0
82.5°	52.1	51.0	51.0	48.7	48.7
85°	30.1	29.0	29.0	26.7	26.7
87.5°	11.6	11.6	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)