

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: P296414

Luminaire Tested: **22RLN-LD5-25-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296414
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-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2408.0 lumens
Efficiency: N/A
Efficacy: 126.9 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

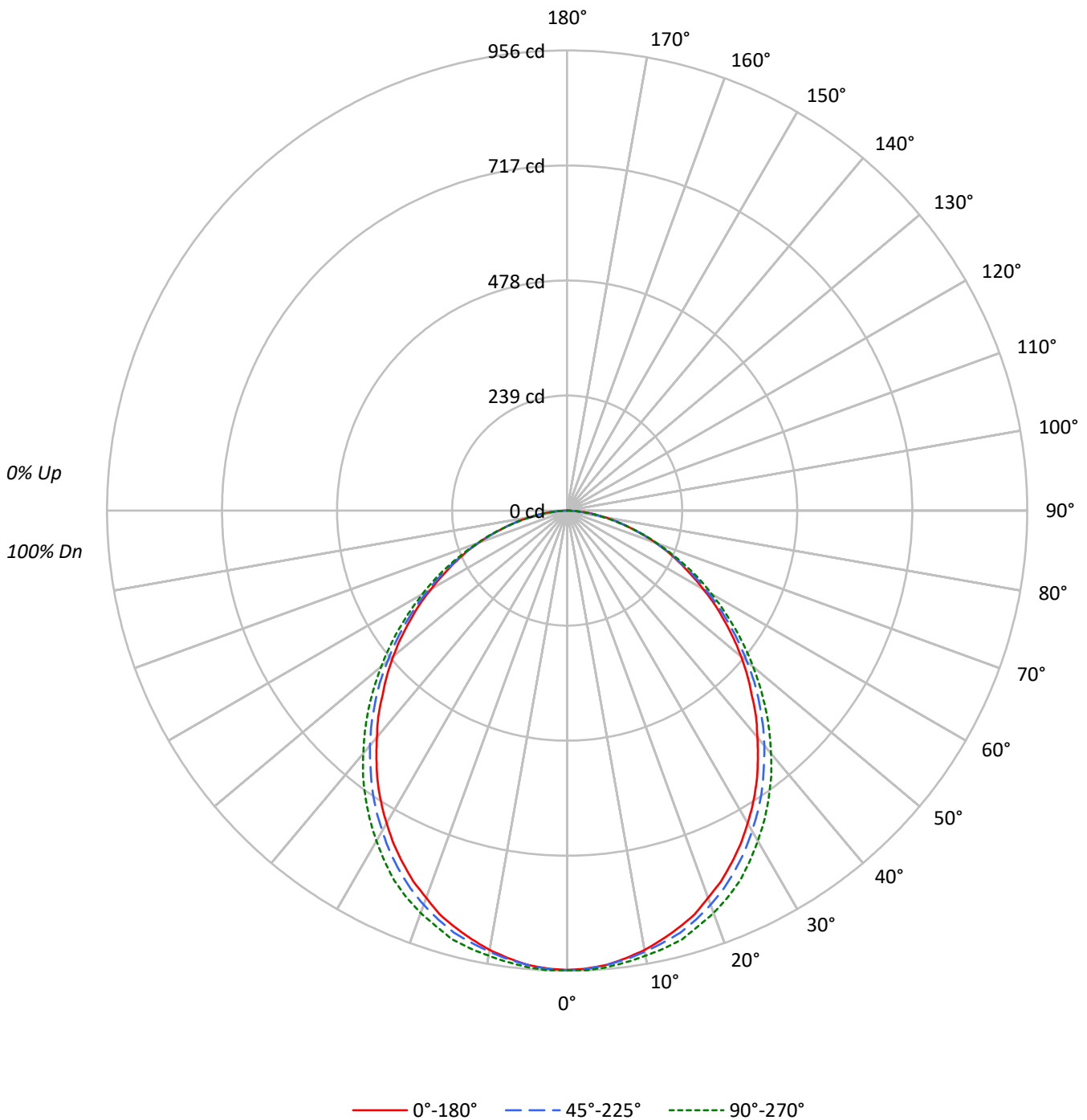
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2569	2569	2569
5°	2559	2559	2572
10°	2533	2543	2566
15°	2498	2529	2569
20°	2451	2496	2548
25°	2399	2449	2520
30°	2332	2388	2462
35°	2256	2319	2398
40°	2159	2239	2315
45°	2065	2148	2221
50°	1975	2040	2111
55°	1870	1926	1994
60°	1758	1803	1868
65°	1651	1682	1735
70°	1540	1540	1568
75°	1373	1373	1373
80°	1209	1172	1172
85°	963	926	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	3.7
10°-20°	255.9	10.6
20°-30°	380.2	15.8
30°-40°	441.2	18.3
40°-50°	434.4	18.0
50°-60°	367.6	15.3
60°-70°	262.2	10.9
70°-80°	140.9	5.9
80°-90°	35.5	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°	726.1	30.2
0°-40°	1167.3	48.5
0°-60°	1969.4	81.8
0°-90°	2408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	947	947	947	951	952	90
15°	897	899	908	916	922	253
25°	808	810	825	840	849	372
35°	687	688	706	723	730	429
45°	543	546	564	578	584	420
55°	399	400	411	421	425	357
65°	259	259	264	269	272	257
75°	132	131	132	132	132	142
85°	31	30	30	28	28	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.5	954.5	954.5	954.5	954.5
2.5°	952.1	952.1	953.3	954.5	955.7
5°	947.3	947.3	947.3	950.9	952.1
7.5°	937.7	938.9	940.1	943.7	946.1
10°	926.9	928.1	930.5	936.5	938.9
12.5°	912.5	916.1	919.7	928.1	931.7
15°	896.8	899.3	907.7	916.1	922.1
17.5°	880.0	881.2	890.8	902.9	905.3
20°	856.0	859.6	871.6	883.6	889.6
22.5°	834.4	836.8	850.0	865.6	870.4
25°	808.0	810.4	824.8	840.4	848.8
27.5°	780.4	782.8	798.4	815.2	821.2
30°	750.4	752.8	768.4	786.4	792.4
32.5°	719.2	721.6	738.4	754.0	762.4
35°	686.7	687.9	706.0	722.8	730.0
37.5°	650.7	654.3	671.1	687.9	696.3
40°	614.7	618.3	637.5	653.1	659.1
42.5°	581.1	585.9	601.5	615.9	621.9
45°	542.7	546.3	564.3	577.5	583.5
47.5°	507.9	511.5	527.1	540.3	543.9
50°	471.8	474.2	487.4	499.5	504.3
52.5°	435.8	437.0	449.0	461.0	464.6
55°	398.6	399.8	410.6	421.4	425.0
57.5°	363.8	363.8	373.4	381.8	385.4
60°	326.6	326.6	335.0	343.4	347.0
62.5°	291.7	291.7	300.2	306.2	311.0
65°	259.3	259.3	264.1	268.9	272.5
67.5°	228.1	224.5	229.3	235.3	234.1
70°	195.7	192.1	195.7	198.1	199.3
72.5°	163.3	160.9	163.3	164.5	166.9
75°	132.1	130.9	132.1	132.1	132.1
77.5°	105.7	102.1	104.5	103.3	102.1
80°	78.0	76.8	75.6	74.4	75.6
82.5°	54.0	52.8	52.8	50.4	50.4
85°	31.2	30.0	30.0	27.6	27.6
87.5°	12.0	12.0	10.8	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)