

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: P296417

Luminaire Tested: **22RLN-LD5-25-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296417
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-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2538.0 lumens
Efficiency: N/A
Efficacy: 131.2 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

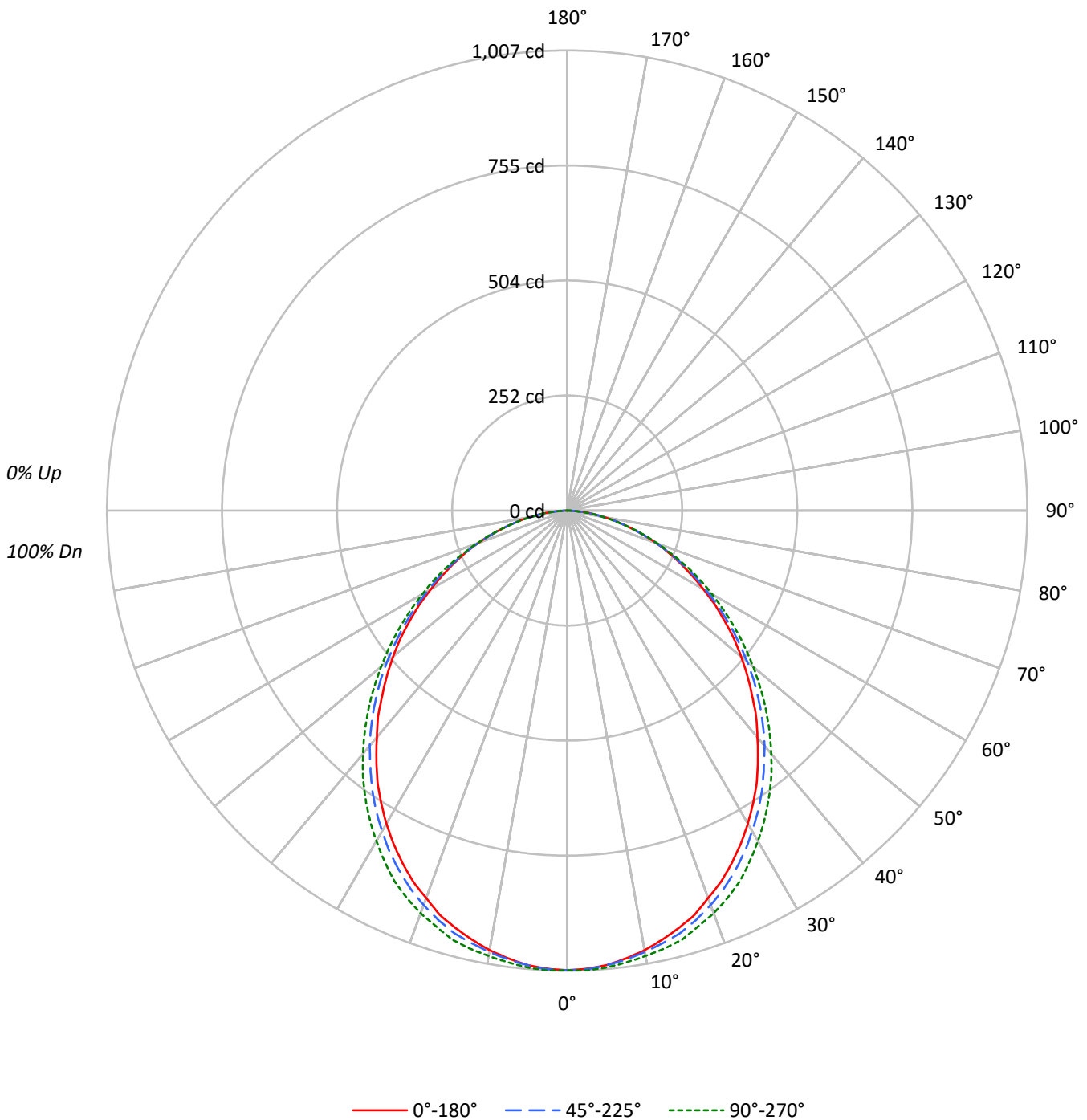
Input Watts (W): 19.344
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2707	2707	2707
5°	2697	2697	2711
10°	2669	2680	2704
15°	2634	2665	2707
20°	2584	2631	2685
25°	2529	2581	2657
30°	2458	2517	2595
35°	2378	2444	2528
40°	2276	2360	2440
45°	2177	2263	2340
50°	2082	2151	2225
55°	1971	2031	2102
60°	1852	1900	1968
65°	1740	1773	1829
70°	1623	1623	1653
75°	1447	1447	1447
80°	1275	1235	1235
85°	1016	976	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.7
10°-20°	269.7	10.6
20°-30°	400.7	15.8
30°-40°	465.0	18.3
40°-50°	457.9	18.0
50°-60°	387.5	15.3
60°-70°	276.4	10.9
70°-80°	148.5	5.9
80°-90°	37.4	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°	765.3	30.2
0°-40°	1230.3	48.5
0°-60°	2075.7	81.8
0°-90°	2538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	998	998	998	1002	1004	95
15°	945	948	957	966	972	266
25°	852	854	869	886	895	392
35°	724	725	744	762	769	452
45°	572	576	595	609	615	442
55°	420	421	433	444	448	376
65°	273	273	278	284	287	271
75°	139	138	139	139	139	149
85°	33	32	32	29	29	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.0	1006.0	1006.0	1006.0	1006.0
2.5°	1003.5	1003.5	1004.7	1006.0	1007.3
5°	998.4	998.4	998.4	1002.2	1003.5
7.5°	988.3	989.6	990.8	994.6	997.1
10°	976.9	978.2	980.7	987.0	989.6
12.5°	961.7	965.5	969.3	978.2	982.0
15°	945.3	947.8	956.7	965.5	971.8
17.5°	927.6	928.8	938.9	951.6	954.1
20°	902.2	906.0	918.7	931.3	937.7
22.5°	879.5	882.0	895.9	912.4	917.4
25°	851.6	854.2	869.3	885.8	894.7
27.5°	822.5	825.1	841.5	859.2	865.5
30°	790.9	793.4	809.9	828.8	835.2
32.5°	758.0	760.5	778.2	794.7	803.5
35°	723.8	725.1	744.1	761.8	769.4
37.5°	685.9	689.7	707.4	725.1	733.9
40°	647.9	651.7	671.9	688.4	694.7
42.5°	612.5	617.5	634.0	649.2	655.5
45°	572.0	575.8	594.7	608.7	615.0
47.5°	535.3	539.1	555.5	569.4	573.2
50°	497.3	499.8	513.8	526.4	531.5
52.5°	459.3	460.6	473.3	485.9	489.7
55°	420.1	421.4	432.8	444.2	448.0
57.5°	383.4	383.4	393.5	402.4	406.2
60°	344.2	344.2	353.1	361.9	365.7
62.5°	307.5	307.5	316.4	322.7	327.7
65°	273.3	273.3	278.4	283.5	287.3
67.5°	240.4	236.6	241.7	248.0	246.8
70°	206.3	202.5	206.3	208.8	210.1
72.5°	172.1	169.6	172.1	173.4	175.9
75°	139.2	137.9	139.2	139.2	139.2
77.5°	111.4	107.6	110.1	108.8	107.6
80°	82.3	81.0	79.7	78.5	79.7
82.5°	56.9	55.7	55.7	53.1	53.1
85°	32.9	31.6	31.6	29.1	29.1
87.5°	12.7	12.7	11.4	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)