

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: P296510

Luminaire Tested: **22RLN-LD5-31-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296510
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-LD5-31-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: 2907.0 lumens
Efficiency: N/A
Efficacy: 116.2 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

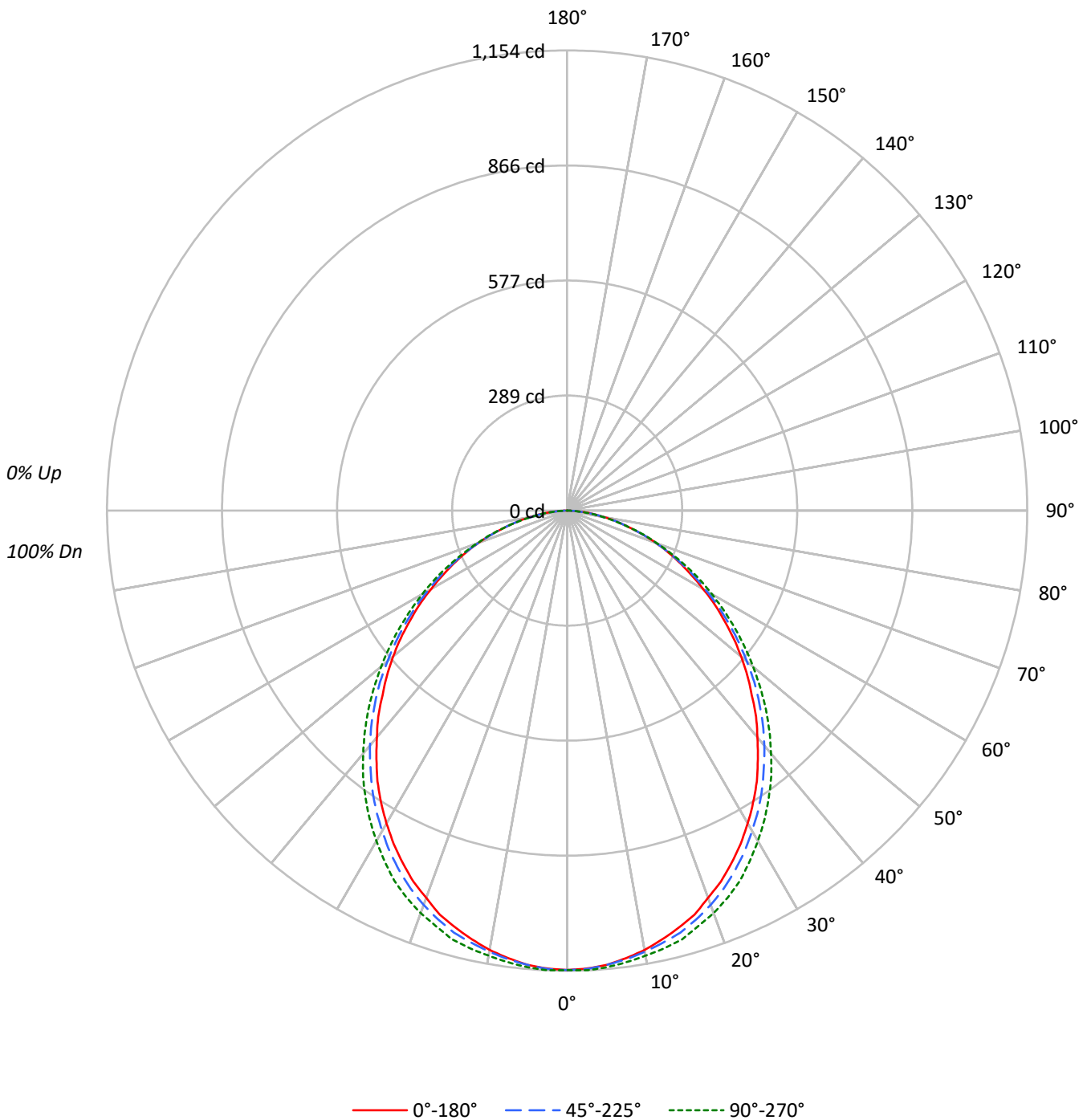
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3101	3101	3101
5°	3089	3089	3105
10°	3057	3069	3097
15°	3016	3053	3101
20°	2959	3013	3076
25°	2896	2956	3043
30°	2815	2882	2972
35°	2724	2800	2895
40°	2607	2703	2795
45°	2493	2592	2681
50°	2385	2464	2548
55°	2258	2326	2407
60°	2122	2176	2255
65°	1994	2031	2095
70°	1859	1859	1893
75°	1657	1657	1657
80°	1460	1415	1415
85°	1164	1118	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.7
10°-20°	309.0	10.6
20°-30°	458.9	15.8
30°-40°	532.6	18.3
40°-50°	524.5	18.0
50°-60°	443.8	15.3
60°-70°	316.5	10.9
70°-80°	170.1	5.9
80°-90°	42.9	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°	876.6	30.2
0°-40°	1409.2	48.5
0°-60°	2377.5	81.8
0°-90°	2907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1144	1144	1144	1148	1149	108
15°	1083	1086	1096	1106	1113	305
25°	975	978	996	1015	1025	449
35°	829	830	852	872	881	517
45°	655	660	681	697	704	506
55°	481	483	496	509	513	431
65°	313	313	319	325	329	311
75°	159	158	159	159	159	171
85°	38	36	36	33	33	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1152.3	1152.3	1152.3	1152.3	1152.3
2.5°	1149.4	1149.4	1150.8	1152.3	1153.7
5°	1143.6	1143.6	1143.6	1147.9	1149.4
7.5°	1132.0	1133.4	1134.9	1139.2	1142.1
10°	1118.9	1120.4	1123.3	1130.5	1133.4
12.5°	1101.5	1105.9	1110.2	1120.4	1124.7
15°	1082.7	1085.6	1095.7	1105.9	1113.1
17.5°	1062.4	1063.9	1075.5	1089.9	1092.8
20°	1033.4	1037.8	1052.3	1066.8	1074.0
22.5°	1007.3	1010.2	1026.2	1045.0	1050.8
25°	975.4	978.3	995.7	1014.6	1024.7
27.5°	942.1	945.0	963.8	984.1	991.4
30°	905.9	908.8	927.6	949.4	956.6
32.5°	868.2	871.1	891.4	910.2	920.4
35°	829.1	830.5	852.2	872.5	881.2
37.5°	785.6	789.9	810.2	830.5	840.7
40°	742.1	746.4	769.6	788.5	795.7
42.5°	701.5	707.3	726.1	743.5	750.8
45°	655.1	659.5	681.2	697.2	704.4
47.5°	613.1	617.4	636.3	652.2	656.6
50°	569.6	572.5	588.5	602.9	608.7
52.5°	526.1	527.6	542.1	556.6	560.9
55°	481.2	482.6	495.7	508.7	513.1
57.5°	439.2	439.2	450.8	460.9	465.3
60°	394.2	394.2	404.4	414.5	418.9
62.5°	352.2	352.2	362.3	369.6	375.4
65°	313.1	313.1	318.9	324.7	329.0
67.5°	275.4	271.0	276.8	284.1	282.6
70°	236.3	231.9	236.3	239.2	240.6
72.5°	197.1	194.2	197.1	198.6	201.5
75°	159.4	158.0	159.4	159.4	159.4
77.5°	127.5	123.2	126.1	124.6	123.2
80°	94.2	92.8	91.3	89.9	91.3
82.5°	65.2	63.8	63.8	60.9	60.9
85°	37.7	36.2	36.2	33.3	33.3
87.5°	14.5	14.5	13.0	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)