

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: P296516

Luminaire Tested: **22RLN-LD5-35-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296516
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-LD5-35-UNV-L92765-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3029.0 lumens
Efficiency: N/A
Efficacy: 108.2 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

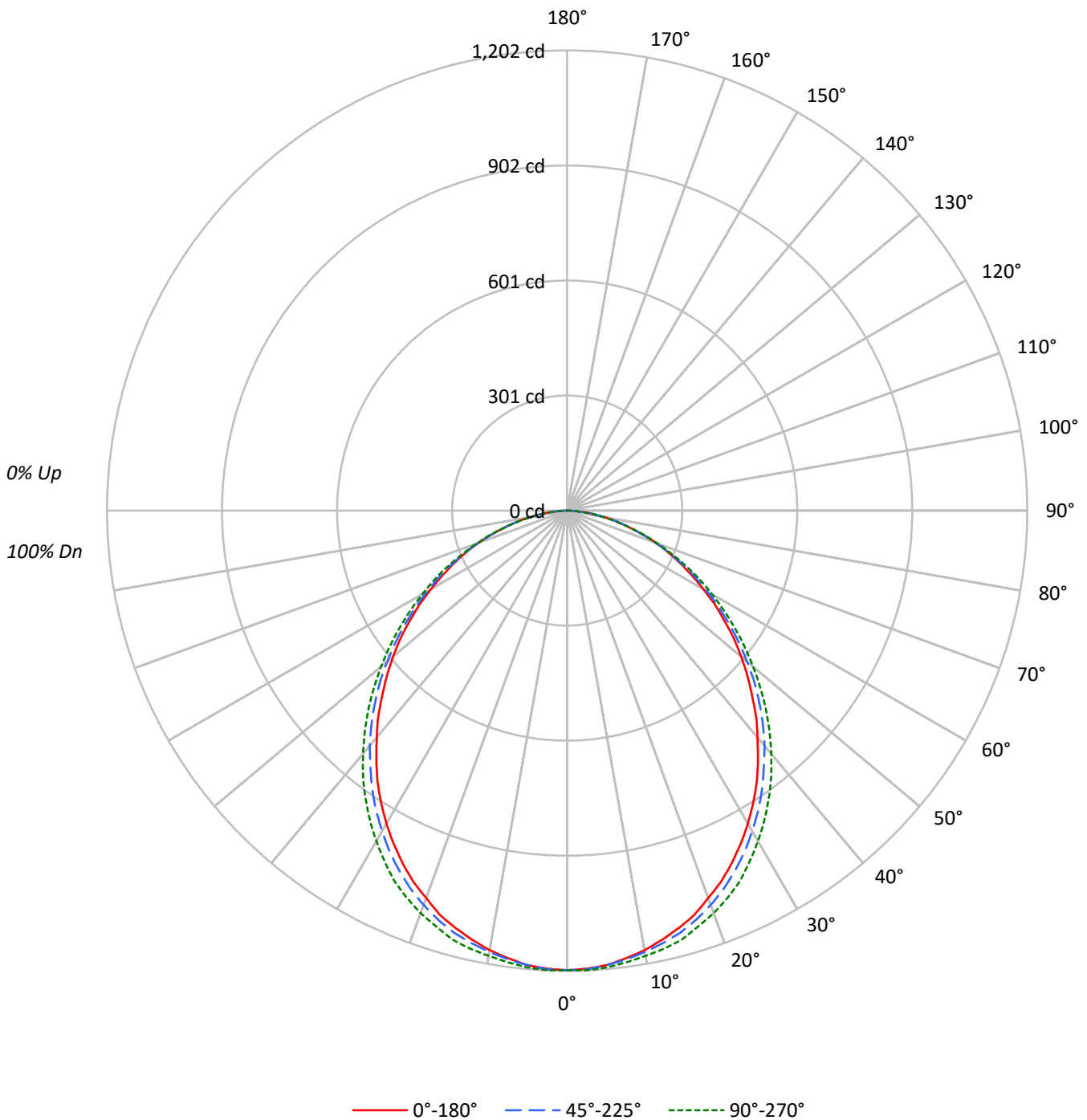
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3231	3231	3231
5°	3219	3219	3235
10°	3186	3198	3227
15°	3143	3181	3231
20°	3084	3140	3205
25°	3018	3081	3170
30°	2933	3003	3097
35°	2838	2917	3016
40°	2716	2817	2912
45°	2598	2701	2793
50°	2485	2567	2655
55°	2352	2423	2508
60°	2211	2268	2349
65°	2077	2115	2183
70°	1937	1937	1972
75°	1727	1727	1727
80°	1522	1474	1474
85°	1213	1167	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	3.7
10°-20°	321.9	10.6
20°-30°	478.2	15.8
30°-40°	555.0	18.3
40°-50°	546.5	18.0
50°-60°	462.5	15.3
60°-70°	329.8	10.9
70°-80°	177.2	5.9
80°-90°	44.7	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°	913.4	30.2
0°-40°	1468.3	48.5
0°-60°	2477.3	81.8
0°-90°	3029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1192	1192	1192	1196	1198	113
15°	1128	1131	1142	1152	1160	318
25°	1016	1019	1038	1057	1068	468
35°	864	865	888	909	918	539
45°	683	687	710	726	734	528
55°	501	503	516	530	535	449
65°	326	326	332	338	343	324
75°	166	165	166	166	166	178
85°	39	38	38	35	35	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1200.6	1200.6	1200.6	1200.6	1200.6
2.5°	1197.6	1197.6	1199.1	1200.6	1202.1
5°	1191.6	1191.6	1191.6	1196.1	1197.6
7.5°	1179.5	1181.0	1182.5	1187.0	1190.1
10°	1165.9	1167.4	1170.4	1178.0	1181.0
12.5°	1147.8	1152.3	1156.8	1167.4	1171.9
15°	1128.1	1131.2	1141.7	1152.3	1159.9
17.5°	1107.0	1108.5	1120.6	1135.7	1138.7
20°	1076.8	1081.3	1096.4	1111.5	1119.1
22.5°	1049.6	1052.6	1069.2	1088.9	1094.9
25°	1016.4	1019.4	1037.5	1057.2	1067.7
27.5°	981.6	984.7	1004.3	1025.4	1033.0
30°	943.9	946.9	966.5	989.2	996.7
32.5°	904.6	907.6	928.8	948.4	959.0
35°	863.8	865.4	888.0	909.2	918.2
37.5°	818.5	823.1	844.2	865.4	875.9
40°	773.2	777.8	801.9	821.6	829.1
42.5°	730.9	737.0	756.6	774.7	782.3
45°	682.6	687.2	709.8	726.4	734.0
47.5°	638.8	643.4	663.0	679.6	684.1
50°	593.5	596.5	613.2	628.3	634.3
52.5°	548.2	549.7	564.8	579.9	584.5
55°	501.4	502.9	516.5	530.1	534.6
57.5°	457.6	457.6	469.7	480.3	484.8
60°	410.8	410.8	421.4	431.9	436.5
62.5°	367.0	367.0	377.6	385.1	391.1
65°	326.2	326.2	332.2	338.3	342.8
67.5°	286.9	282.4	288.5	296.0	294.5
70°	246.2	241.6	246.2	249.2	250.7
72.5°	205.4	202.4	205.4	206.9	209.9
75°	166.1	164.6	166.1	166.1	166.1
77.5°	132.9	128.4	131.4	129.9	128.4
80°	98.2	96.7	95.1	93.6	95.1
82.5°	68.0	66.4	66.4	63.4	63.4
85°	39.3	37.8	37.8	34.7	34.7
87.5°	15.1	15.1	13.6	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)