

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: P296519

Luminaire Tested: **22RLN-LD5-35-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296519  
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-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: 3272.0 lumens  
Efficiency: N/A  
Efficacy: 114.6 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

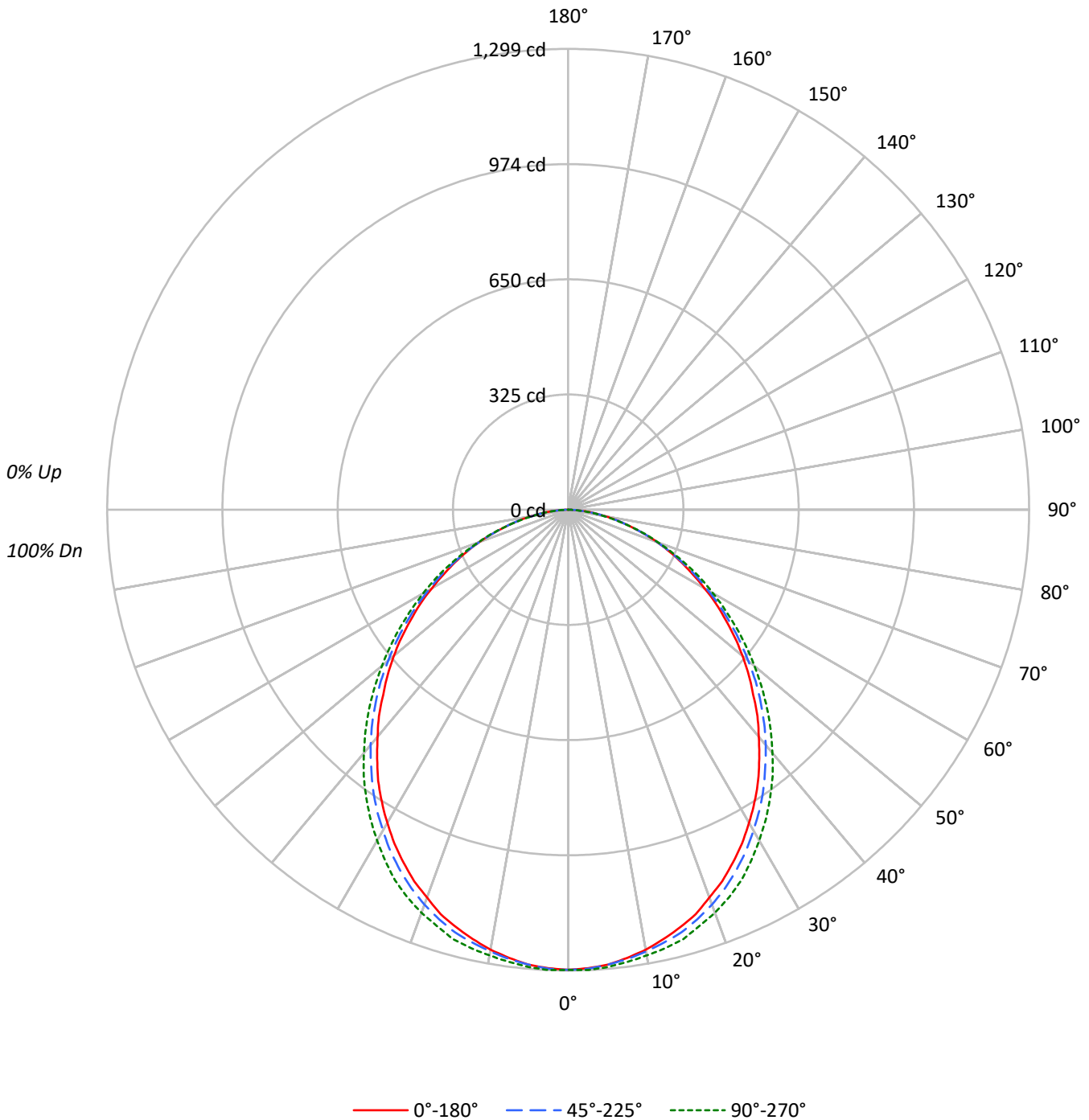
Input Watts (W): 28.551  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3490	3490	3490
5°	3477	3477	3495
10°	3441	3455	3486
15°	3395	3436	3490
20°	3331	3392	3462
25°	3260	3328	3425
30°	3168	3244	3346
35°	3066	3151	3258
40°	2934	3043	3146
45°	2806	2918	3017
50°	2684	2773	2869
55°	2541	2617	2709
60°	2388	2450	2538
65°	2244	2285	2358
70°	2092	2092	2131
75°	1866	1866	1866
80°	1643	1593	1593
85°	1309	1260	1158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.3	3.7
10°-20°	347.7	10.6
20°-30°	516.6	15.8
30°-40°	599.5	18.3
40°-50°	590.3	18.0
50°-60°	499.6	15.3
60°-70°	356.3	10.9
70°-80°	191.5	5.9
80°-90°	48.3	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°	986.6	30.2
0°-40°	1586.2	48.5
0°-60°	2676.0	81.8
0°-90°	3272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3272.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1287	1287	1287	1292	1294	122
15°	1219	1222	1233	1245	1253	343
25°	1098	1101	1121	1142	1153	505
35°	933	935	959	982	992	582
45°	737	742	767	785	793	570
55°	542	543	558	573	578	485
65°	352	352	359	365	370	350
75°	180	178	180	180	180	193
85°	42	41	41	38	38	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1296.9	1296.9	1296.9	1296.9	1296.9
2.5°	1293.7	1293.7	1295.3	1296.9	1298.6
5°	1287.2	1287.2	1287.2	1292.1	1293.7
7.5°	1274.1	1275.7	1277.4	1282.3	1285.5
10°	1259.4	1261.1	1264.3	1272.5	1275.7
12.5°	1239.9	1244.7	1249.6	1261.1	1266.0
15°	1218.6	1221.9	1233.3	1244.7	1252.9
17.5°	1195.8	1197.4	1210.5	1226.8	1230.1
20°	1163.2	1168.1	1184.4	1200.7	1208.9
22.5°	1133.8	1137.1	1155.0	1176.2	1182.8
25°	1097.9	1101.2	1120.8	1142.0	1153.4
27.5°	1060.4	1063.7	1084.9	1107.7	1115.9
30°	1019.6	1022.9	1044.1	1068.6	1076.7
32.5°	977.2	980.5	1003.3	1024.5	1035.9
35°	933.2	934.8	959.3	982.1	991.9
37.5°	884.2	889.1	911.9	934.8	946.2
40°	835.3	840.2	866.3	887.5	895.6
42.5°	789.6	796.1	817.3	836.9	845.1
45°	737.4	742.3	766.7	784.7	792.9
47.5°	690.1	695.0	716.2	734.1	739.0
50°	641.1	644.4	662.3	678.7	685.2
52.5°	592.2	593.8	610.1	626.5	631.3
55°	541.6	543.3	557.9	572.6	577.5
57.5°	494.3	494.3	507.4	518.8	523.7
60°	443.7	443.7	455.2	466.6	471.5
62.5°	396.4	396.4	407.8	416.0	422.5
65°	352.4	352.4	358.9	365.4	370.3
67.5°	310.0	305.1	311.6	319.8	318.1
70°	265.9	261.0	265.9	269.2	270.8
72.5°	221.9	218.6	221.9	223.5	226.8
75°	179.5	177.8	179.5	179.5	179.5
77.5°	143.6	138.7	141.9	140.3	138.7
80°	106.0	104.4	102.8	101.1	102.8
82.5°	73.4	71.8	71.8	68.5	68.5
85°	42.4	40.8	40.8	37.5	37.5
87.5°	16.3	16.3	14.7	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)