

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: P296523

Luminaire Tested: **22RLN-LD5-40-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296523  
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-LD5-40-UNV-L92765-W2A1-U-2700K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3138.0 lumens  
Efficiency: N/A  
Efficacy: 98.1 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

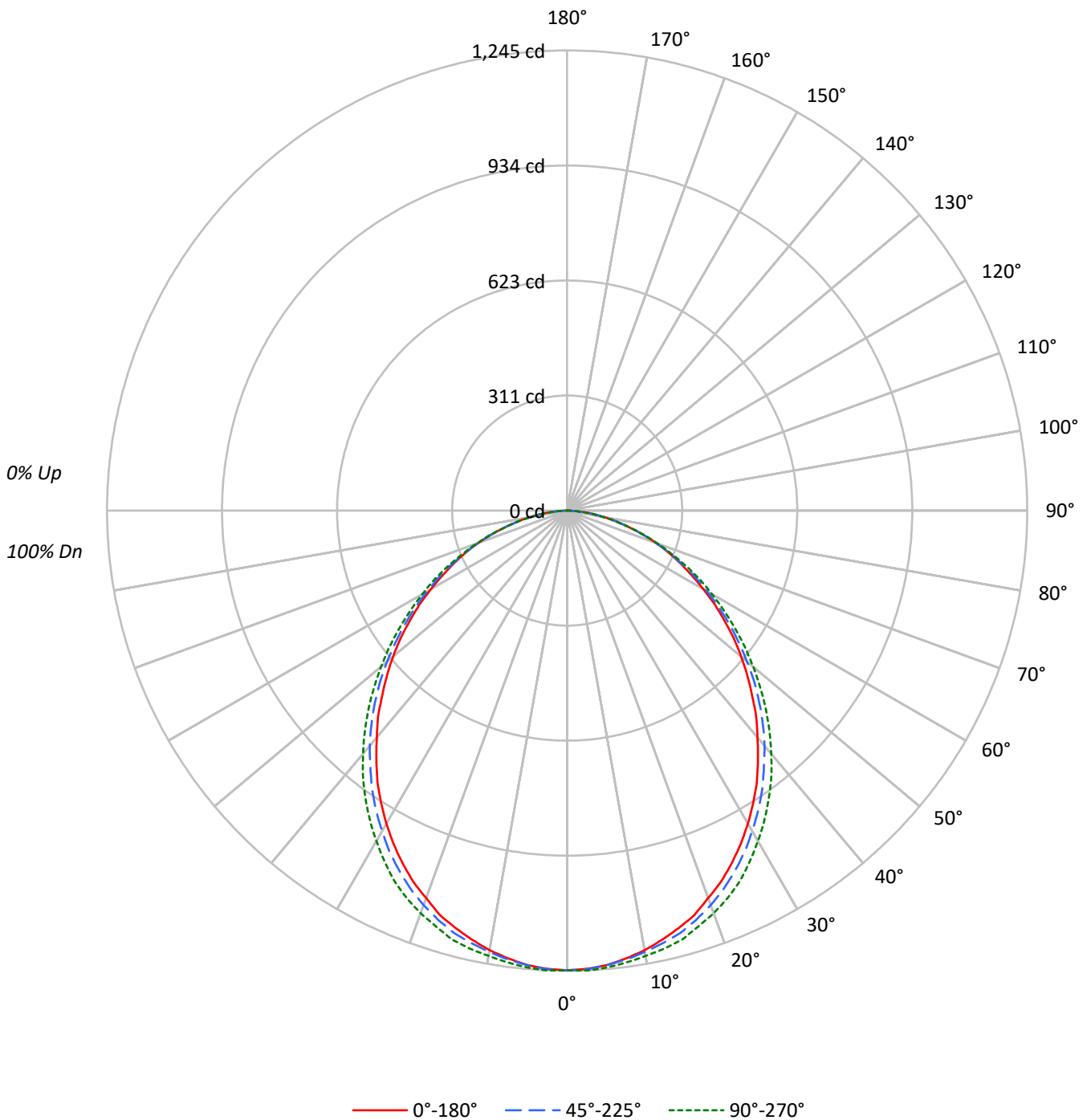
Input Watts (W): 31.992  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3347	3347	3347
5°	3334	3334	3351
10°	3300	3313	3343
15°	3256	3295	3348
20°	3194	3253	3320
25°	3127	3192	3284
30°	3039	3111	3209
35°	2940	3022	3125
40°	2814	2918	3017
45°	2691	2798	2894
50°	2574	2659	2751
55°	2437	2510	2599
60°	2291	2349	2434
65°	2152	2192	2262
70°	2006	2006	2043
75°	1789	1789	1789
80°	1576	1528	1528
85°	1257	1207	1112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.3	3.7
10°-20°	333.5	10.6
20°-30°	495.4	15.8
30°-40°	575.0	18.3
40°-50°	566.1	18.0
50°-60°	479.1	15.3
60°-70°	341.7	10.9
70°-80°	183.6	5.9
80°-90°	46.3	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°	946.2	30.2
0°-40°	1521.2	48.5
0°-60°	2566.4	81.8
0°-90°	3138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3138.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1234	1234	1234	1239	1241	117
15°	1169	1172	1183	1194	1202	329
25°	1053	1056	1075	1095	1106	485
35°	895	896	920	942	951	558
45°	707	712	735	753	760	547
55°	519	521	535	549	554	465
65°	338	338	344	350	355	335
75°	172	170	172	172	172	185
85°	41	39	39	36	36	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1243.8	1243.8	1243.8	1243.8	1243.8
2.5°	1240.7	1240.7	1242.3	1243.8	1245.4
5°	1234.4	1234.4	1234.4	1239.1	1240.7
7.5°	1221.9	1223.5	1225.1	1229.8	1232.9
10°	1207.8	1209.4	1212.5	1220.4	1223.5
12.5°	1189.1	1193.8	1198.5	1209.4	1214.1
15°	1168.7	1171.9	1182.8	1193.8	1201.6
17.5°	1146.8	1148.4	1160.9	1176.6	1179.7
20°	1115.5	1120.2	1135.9	1151.5	1159.3
22.5°	1087.4	1090.5	1107.7	1128.1	1134.3
25°	1053.0	1056.1	1074.9	1095.2	1106.2
27.5°	1017.0	1020.1	1040.4	1062.3	1070.2
30°	977.9	981.0	1001.3	1024.8	1032.6
32.5°	937.2	940.3	962.2	982.6	993.5
35°	894.9	896.5	920.0	941.9	951.3
37.5°	848.0	852.7	874.6	896.5	907.5
40°	801.1	805.8	830.8	851.1	858.9
42.5°	757.3	763.5	783.9	802.6	810.4
45°	707.2	711.9	735.3	752.6	760.4
47.5°	661.8	666.5	686.8	704.1	708.8
50°	614.9	618.0	635.2	650.9	657.1
52.5°	567.9	569.5	585.1	600.8	605.5
55°	519.4	521.0	535.1	549.2	553.9
57.5°	474.1	474.1	486.6	497.5	502.2
60°	425.6	425.6	436.5	447.5	452.2
62.5°	380.2	380.2	391.1	399.0	405.2
65°	337.9	337.9	344.2	350.5	355.2
67.5°	297.3	292.6	298.8	306.7	305.1
70°	255.0	250.3	255.0	258.2	259.7
72.5°	212.8	209.7	212.8	214.3	217.5
75°	172.1	170.5	172.1	172.1	172.1
77.5°	137.7	133.0	136.1	134.6	133.0
80°	101.7	100.1	98.6	97.0	98.6
82.5°	70.4	68.8	68.8	65.7	65.7
85°	40.7	39.1	39.1	36.0	36.0
87.5°	15.6	15.6	14.1	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)