

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: P292072

Luminaire Tested: **22GR-LD5-24-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-24-F125-UNV-L92765-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1988.0 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

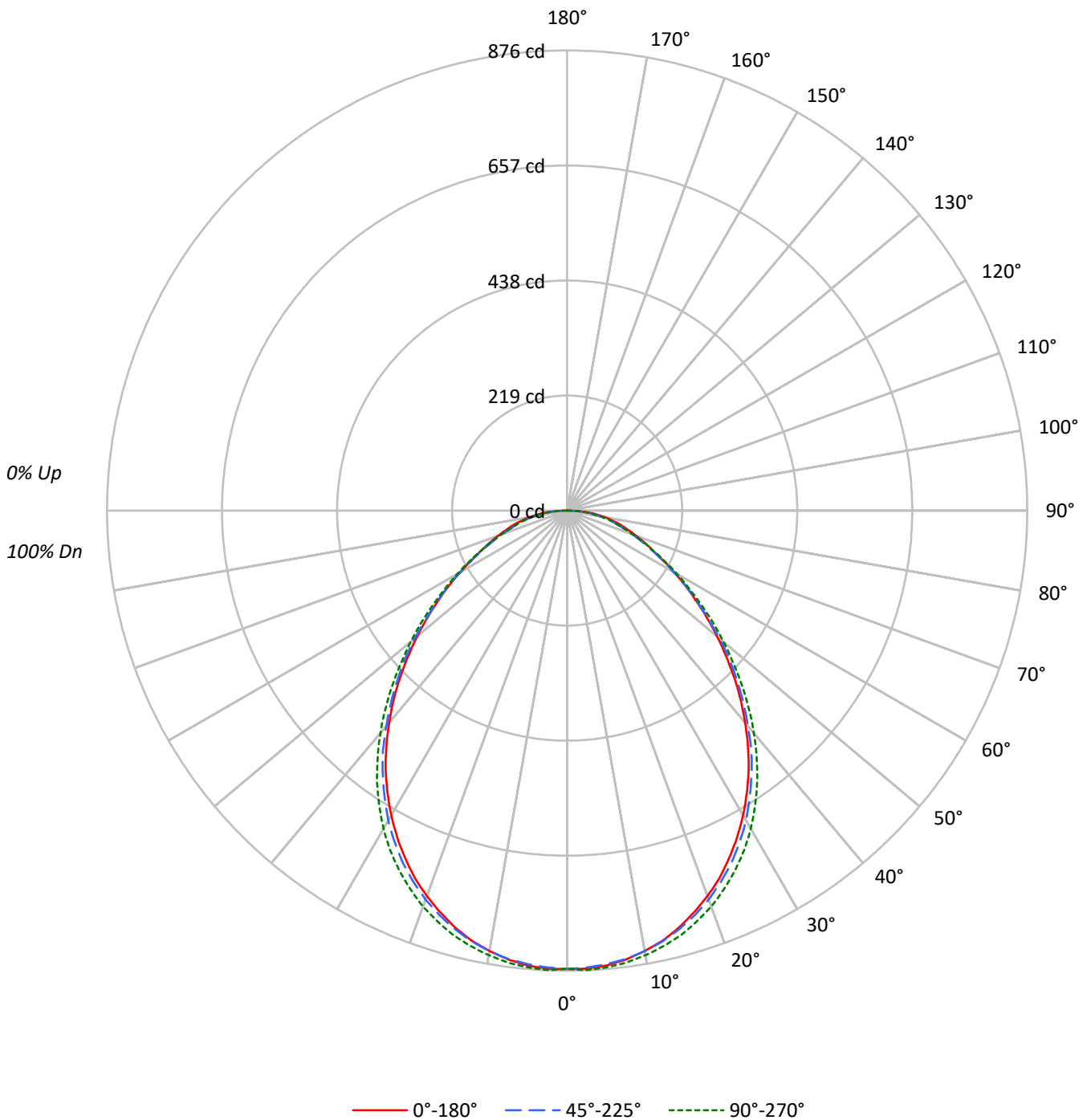
Input Watts (W): 17.949  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2348	2348	2348
5°	2348	2341	2357
10°	2326	2327	2348
15°	2290	2298	2331
20°	2236	2256	2297
25°	2167	2197	2245
30°	2081	2117	2173
35°	1979	2011	2073
40°	1851	1881	1943
45°	1713	1740	1791
50°	1560	1585	1626
55°	1409	1413	1454
60°	1264	1269	1298
65°	1151	1128	1154
70°	1096	1035	1053
75°	1103	997	1002
80°	1144	1007	1001
85°	1254	1068	1013



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	4.1
10°-20°	232.9	11.7
20°-30°	340.9	17.1
30°-40°	383.3	19.3
40°-50°	353.5	17.8
50°-60°	272.4	13.7
60°-70°	179.8	9.0
70°-80°	104.6	5.3
80°-90°	38.1	1.9
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°	656.3	33.0
0°-40°	1039.6	52.3
0°-60°	1665.5	83.8
0°-90°	1988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1988.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	869	867	867	871	873	82
15°	822	822	825	832	837	231
25°	730	733	740	750	756	336
35°	602	605	612	625	631	376
45°	450	451	457	466	470	347
55°	300	300	301	306	310	269
65°	181	180	177	178	181	181
75°	106	102	96	94	96	112
85°	41	40	35	32	33	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	872.7	872.7	872.7	872.7	872.7
2.5°	872.7	870.9	870.4	873.7	875.5
5°	869.1	867.2	866.7	870.9	872.7
7.5°	861.7	860.3	860.7	865.4	867.7
10°	851.1	850.6	851.5	856.6	859.4
12.5°	838.6	838.1	840.0	845.5	849.2
15°	822.0	822.0	824.8	832.1	836.8
17.5°	802.2	803.5	807.7	815.1	820.2
20°	780.9	782.3	787.9	796.2	802.2
22.5°	757.4	759.3	764.8	774.9	780.0
25°	729.7	733.4	739.9	750.0	756.0
27.5°	701.1	705.3	711.3	723.7	729.3
30°	669.8	672.5	681.3	692.8	699.3
32.5°	636.6	639.3	646.7	660.6	666.1
35°	602.4	605.2	612.1	624.6	631.0
37.5°	565.5	567.8	576.1	585.8	592.7
40°	526.8	530.0	535.5	547.1	553.1
42.5°	489.0	490.3	496.3	507.9	512.5
45°	450.2	450.7	457.1	466.4	470.5
47.5°	410.1	411.0	418.8	424.4	428.5
50°	372.7	373.2	378.7	383.8	388.4
52.5°	335.3	335.3	338.1	343.7	349.6
55°	300.3	299.8	301.2	306.3	310.0
57.5°	267.1	266.6	268.5	271.7	274.5
60°	234.8	233.9	235.7	237.6	241.2
62.5°	206.2	207.1	204.8	207.6	210.3
65°	180.8	179.9	177.1	178.5	181.3
67.5°	159.1	157.8	153.1	154.1	157.3
70°	139.3	136.5	131.5	131.5	133.8
72.5°	121.3	118.5	112.1	112.6	113.5
75°	106.1	101.5	95.9	94.1	96.4
77.5°	89.5	85.8	80.7	79.3	80.3
80°	73.8	71.0	65.0	63.2	64.6
82.5°	58.6	56.3	49.4	48.0	48.4
85°	40.6	40.1	34.6	31.8	32.8
87.5°	21.7	22.1	18.0	16.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)