

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: P291966

Luminaire Tested: **22GR-LD5-20-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291966  
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-LD5-20-F125-UNV-L82765-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2031.0 lumens  
Efficiency: N/A  
Efficacy: 130.8 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

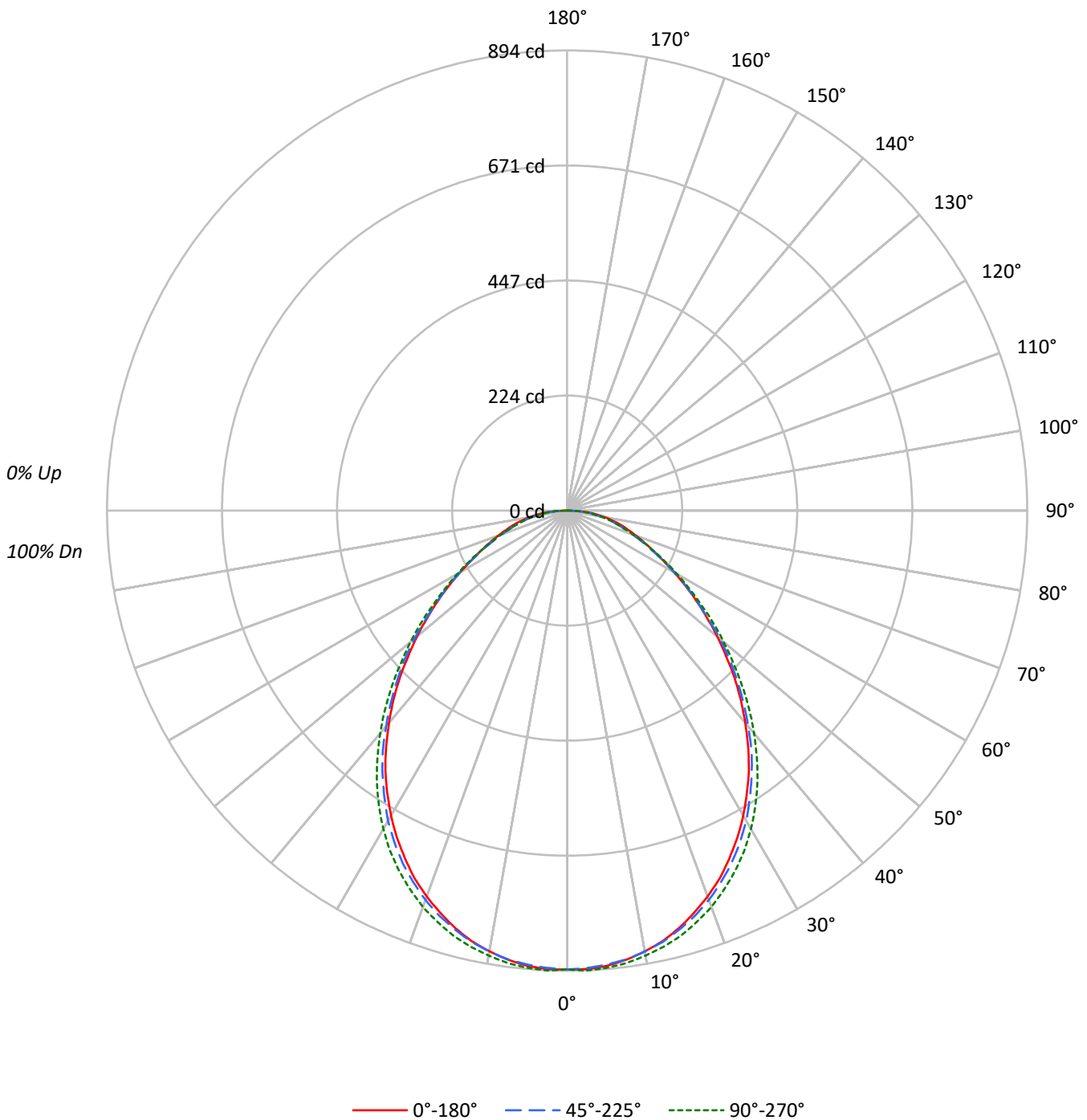
Input Watts (W): 15.531  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P291966

CATALOG NUMBER: 22GR-LD5-20-F125-UNV-L82765-W2A1-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P291966

CATALOG NUMBER: 22GR-LD5-20-F125-UNV-L82765-W2A1-U-3500K

**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°	2399	2399	2399
5°	2398	2392	2408
10°	2376	2377	2399
15°	2340	2347	2382
20°	2285	2305	2347
25°	2214	2244	2293
30°	2126	2163	2220
35°	2022	2054	2118
40°	1891	1922	1985
45°	1750	1777	1829
50°	1594	1620	1661
55°	1439	1444	1486
60°	1291	1296	1327
65°	1176	1152	1179
70°	1120	1057	1076
75°	1127	1019	1024
80°	1168	1029	1023
85°	1281	1090	1034



TEST NUMBER: P291966

CATALOG NUMBER: 22GR-LD5-20-F125-UNV-L82765-W2A1-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	4.1
10°-20°	238.0	11.7
20°-30°	348.3	17.1
30°-40°	391.6	19.3
40°-50°	361.1	17.8
50°-60°	278.3	13.7
60°-70°	183.7	9.0
70°-80°	106.9	5.3
80°-90°	38.9	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°	670.5	33.0
0°-40°	1062.1	52.3
0°-60°	1701.5	83.8
0°-90°	2031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2031.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	888	886	886	890	892	84
15°	840	840	843	850	855	236
25°	746	749	756	766	772	343
35°	616	618	625	638	645	384
45°	460	460	467	476	481	354
55°	307	306	308	313	317	275
65°	185	184	181	182	185	185
75°	108	104	98	96	98	114
85°	42	41	35	32	34	44
90°	0	0	0	0	0	



TEST NUMBER: P291966

CATALOG NUMBER: 22GR-LD5-20-F125-UNV-L82765-W2A1-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	891.6	891.6	891.6	891.6	891.6
2.5°	891.6	889.7	889.3	892.6	894.4
5°	887.8	886.0	885.5	889.7	891.6
7.5°	880.3	878.9	879.4	884.1	886.4
10°	869.5	869.0	869.9	875.1	878.0
12.5°	856.7	856.3	858.2	863.8	867.6
15°	839.8	839.8	842.6	850.1	854.9
17.5°	819.5	820.9	825.2	832.7	837.9
20°	797.8	799.3	804.9	813.4	819.5
22.5°	773.8	775.7	781.3	791.7	796.9
25°	745.5	749.3	755.9	766.3	772.4
27.5°	716.3	720.6	726.7	739.4	745.1
30°	684.3	687.1	696.0	707.8	714.4
32.5°	650.3	653.2	660.7	674.8	680.5
35°	615.5	618.3	625.4	638.1	644.7
37.5°	577.8	580.1	588.6	598.5	605.6
40°	538.2	541.5	547.1	558.9	565.0
42.5°	499.5	500.9	507.1	518.9	523.6
45°	459.9	460.4	467.0	476.4	480.7
47.5°	418.9	419.9	427.9	433.6	437.8
50°	380.8	381.2	386.9	392.1	396.8
52.5°	342.6	342.6	345.4	351.1	357.2
55°	306.8	306.3	307.7	312.9	316.7
57.5°	272.9	272.4	274.3	277.6	280.4
60°	239.9	238.9	240.8	242.7	246.5
62.5°	210.7	211.6	209.2	212.1	214.9
65°	184.7	183.8	181.0	182.4	185.2
67.5°	162.6	161.2	156.5	157.4	160.7
70°	142.3	139.5	134.3	134.3	136.7
72.5°	123.9	121.1	114.5	115.0	115.9
75°	108.4	103.7	98.0	96.1	98.5
77.5°	91.4	87.7	82.5	81.1	82.0
80°	75.4	72.6	66.4	64.6	66.0
82.5°	59.8	57.5	50.4	49.0	49.5
85°	41.5	41.0	35.3	32.5	33.5
87.5°	22.1	22.6	18.4	16.5	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)