

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: P292067

Luminaire Tested: **22GR-LD5-20-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292067  
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-L92765-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1922.0 lumens  
Efficiency: N/A  
Efficacy: 121.6 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

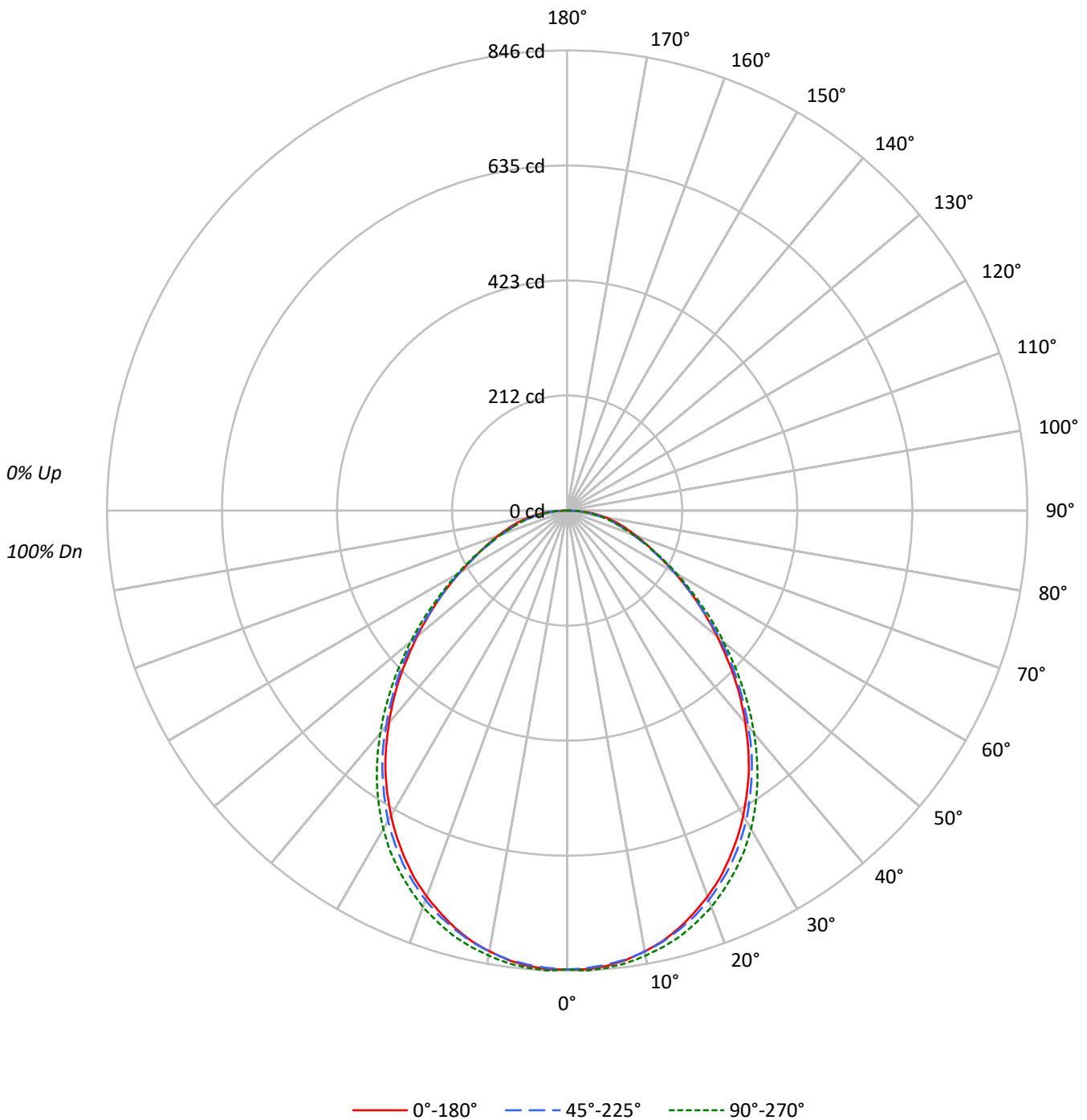
Input Watts (W): 15.81  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2271	2271	2271
5°	2270	2264	2279
10°	2248	2250	2270
15°	2214	2221	2254
20°	2162	2181	2221
25°	2095	2124	2170
30°	2012	2047	2101
35°	1913	1944	2004
40°	1789	1819	1878
45°	1657	1682	1731
50°	1508	1533	1572
55°	1362	1366	1406
60°	1222	1227	1255
65°	1113	1091	1116
70°	1060	1000	1017
75°	1067	965	969
80°	1106	975	967
85°	1210	1031	979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.7	4.1
10°-20°	225.2	11.7
20°-30°	329.6	17.1
30°-40°	370.6	19.3
40°-50°	341.7	17.8
50°-60°	263.4	13.7
60°-70°	173.8	9.0
70°-80°	101.2	5.3
80°-90°	36.8	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°	634.5	33.0
0°-40°	1005.1	52.3
0°-60°	1610.2	83.8
0°-90°	1922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	840	838	838	842	844	80
15°	795	795	797	804	809	224
25°	706	709	715	725	731	325
35°	582	585	592	604	610	363
45°	435	436	442	451	455	335
55°	290	290	291	296	300	260
65°	175	174	171	173	175	175
75°	103	98	93	91	93	108
85°	39	39	33	31	32	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	843.8	843.8	843.8	843.8	843.8
2.5°	843.8	842.0	841.5	844.7	846.4
5°	840.2	838.4	838.0	842.0	843.8
7.5°	833.1	831.7	832.2	836.6	838.9
10°	822.8	822.4	823.3	828.2	830.8
12.5°	810.8	810.3	812.1	817.5	821.0
15°	794.7	794.7	797.4	804.5	809.0
17.5°	775.5	776.9	780.9	788.0	792.9
20°	755.0	756.4	761.7	769.7	775.5
22.5°	732.3	734.1	739.4	749.2	754.1
25°	705.5	709.1	715.3	725.1	730.9
27.5°	677.9	681.9	687.7	699.7	705.1
30°	647.5	650.2	658.7	669.8	676.1
32.5°	615.4	618.1	625.2	638.6	644.0
35°	582.4	585.1	591.8	603.8	610.1
37.5°	546.8	549.0	557.0	566.4	573.1
40°	509.3	512.4	517.8	528.9	534.7
42.5°	472.7	474.1	479.9	491.0	495.5
45°	435.3	435.7	442.0	450.9	454.9
47.5°	396.5	397.4	404.9	410.3	414.3
50°	360.3	360.8	366.1	371.0	375.5
52.5°	324.2	324.2	326.9	332.2	338.0
55°	290.3	289.9	291.2	296.1	299.7
57.5°	258.2	257.8	259.6	262.7	265.3
60°	227.0	226.1	227.9	229.7	233.2
62.5°	199.3	200.2	198.0	200.7	203.4
65°	174.8	173.9	171.3	172.6	175.3
67.5°	153.9	152.5	148.1	149.0	152.1
70°	134.7	132.0	127.1	127.1	129.3
72.5°	117.3	114.6	108.4	108.8	109.7
75°	102.6	98.1	92.8	91.0	93.2
77.5°	86.5	82.9	78.0	76.7	77.6
80°	71.4	68.7	62.9	61.1	62.4
82.5°	56.6	54.4	47.7	46.4	46.8
85°	39.2	38.8	33.4	30.8	31.7
87.5°	21.0	21.4	17.4	15.6	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)