

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: P291971

Luminaire Tested: **22GR-LD5-20-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291971  
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-5700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2167.0 lumens  
Efficiency: N/A  
Efficacy: 136.3 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

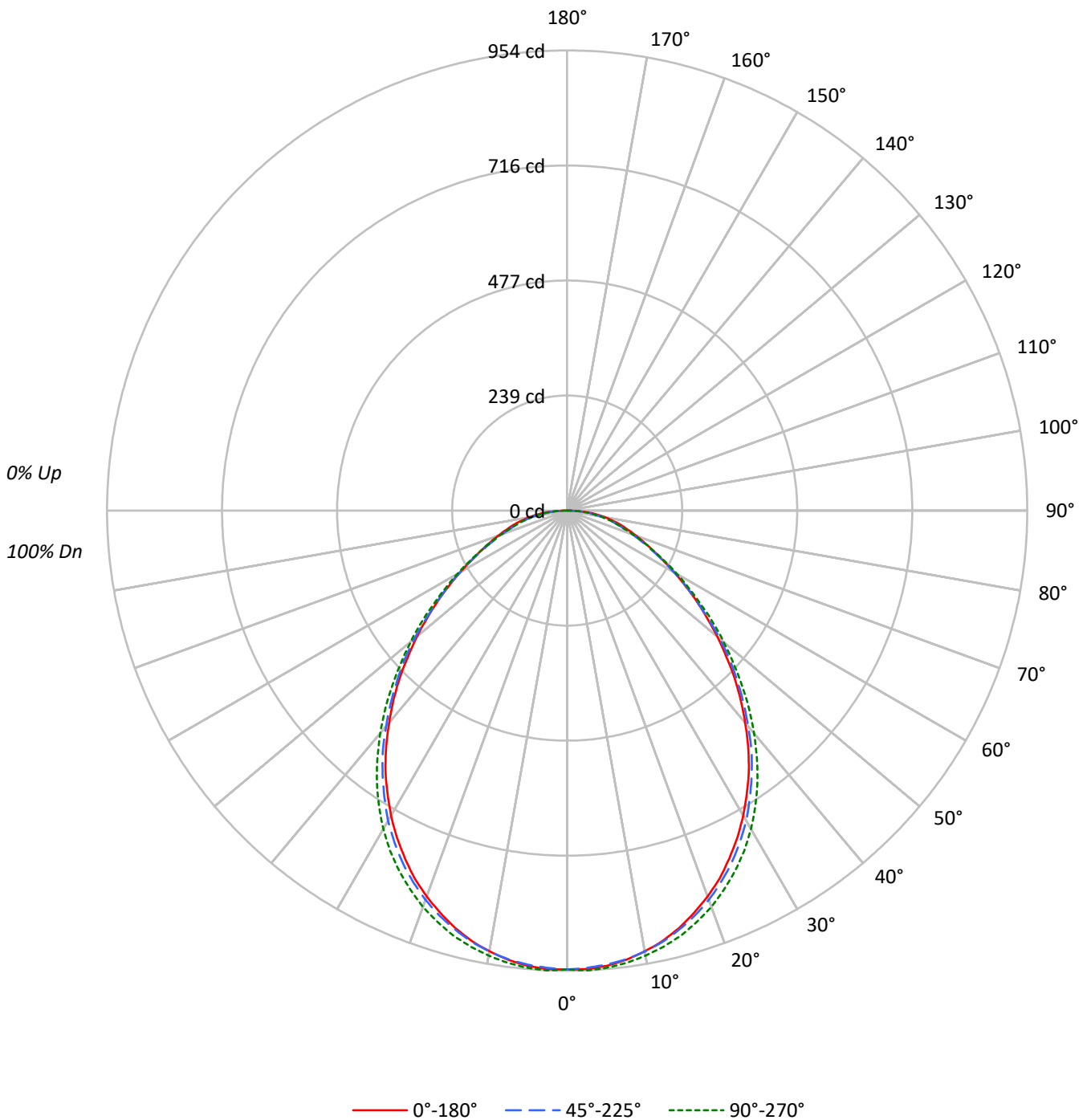
Input Watts (W): 15.903  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2560	2560	2560
5°	2559	2552	2570
10°	2535	2536	2560
15°	2496	2505	2541
20°	2438	2459	2504
25°	2362	2395	2447
30°	2269	2308	2369
35°	2157	2192	2259
40°	2017	2051	2118
45°	1867	1896	1952
50°	1701	1728	1773
55°	1536	1540	1585
60°	1377	1383	1415
65°	1255	1230	1258
70°	1194	1127	1147
75°	1202	1088	1093
80°	1247	1099	1091
85°	1365	1164	1102



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.9	4.1
10°-20°	253.9	11.7
20°-30°	371.6	17.1
30°-40°	417.8	19.3
40°-50°	385.3	17.8
50°-60°	297.0	13.7
60°-70°	196.0	9.0
70°-80°	114.0	5.3
80°-90°	41.5	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°	715.4	33.0
0°-40°	1133.2	52.3
0°-60°	1815.4	83.8
0°-90°	2167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2167.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	947	945	945	949	951	90
15°	896	896	899	907	912	252
25°	796	800	806	818	824	366
35°	657	660	667	681	688	409
45°	491	491	498	508	513	378
55°	327	327	328	334	338	294
65°	197	196	193	195	198	198
75°	116	111	105	103	105	122
85°	44	44	38	35	36	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	951.3	951.3	951.3	951.3	951.3
2.5°	951.3	949.3	948.8	952.3	954.3
5°	947.3	945.3	944.8	949.3	951.3
7.5°	939.3	937.7	938.2	943.3	945.8
10°	927.7	927.2	928.2	933.7	936.7
12.5°	914.1	913.6	915.6	921.7	925.7
15°	896.0	896.0	899.0	907.1	912.1
17.5°	874.4	875.9	880.4	888.5	894.0
20°	851.3	852.8	858.8	867.9	874.4
22.5°	825.6	827.6	833.7	844.7	850.3
25°	795.5	799.5	806.5	817.6	824.1
27.5°	764.3	768.8	775.3	788.9	794.9
30°	730.1	733.1	742.7	755.2	762.3
32.5°	693.9	696.9	704.9	720.0	726.1
35°	656.7	659.7	667.2	680.8	687.8
37.5°	616.4	619.0	628.0	638.6	646.1
40°	574.2	577.7	583.8	596.3	602.9
42.5°	533.0	534.5	541.0	553.6	558.6
45°	490.7	491.2	498.3	508.3	512.9
47.5°	447.0	448.0	456.6	462.6	467.1
50°	406.3	406.8	412.8	418.3	423.4
52.5°	365.5	365.5	368.6	374.6	381.1
55°	327.3	326.8	328.3	333.9	337.9
57.5°	291.1	290.6	292.6	296.2	299.2
60°	255.9	254.9	256.9	258.9	263.0
62.5°	224.8	225.8	223.2	226.3	229.3
65°	197.1	196.1	193.1	194.6	197.6
67.5°	173.5	172.0	166.9	167.9	171.5
70°	151.8	148.8	143.3	143.3	145.8
72.5°	132.2	129.2	122.2	122.7	123.7
75°	115.6	110.6	104.6	102.6	105.1
77.5°	97.5	93.5	88.0	86.5	87.5
80°	80.5	77.4	70.9	68.9	70.4
82.5°	63.9	61.3	53.8	52.3	52.8
85°	44.2	43.7	37.7	34.7	35.7
87.5°	23.6	24.1	19.6	17.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)