

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: P292070

Luminaire Tested: **22GR-LD5-20-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292070  
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-6500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1973.0 lumens  
Efficiency: N/A  
Efficacy: 121.9 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

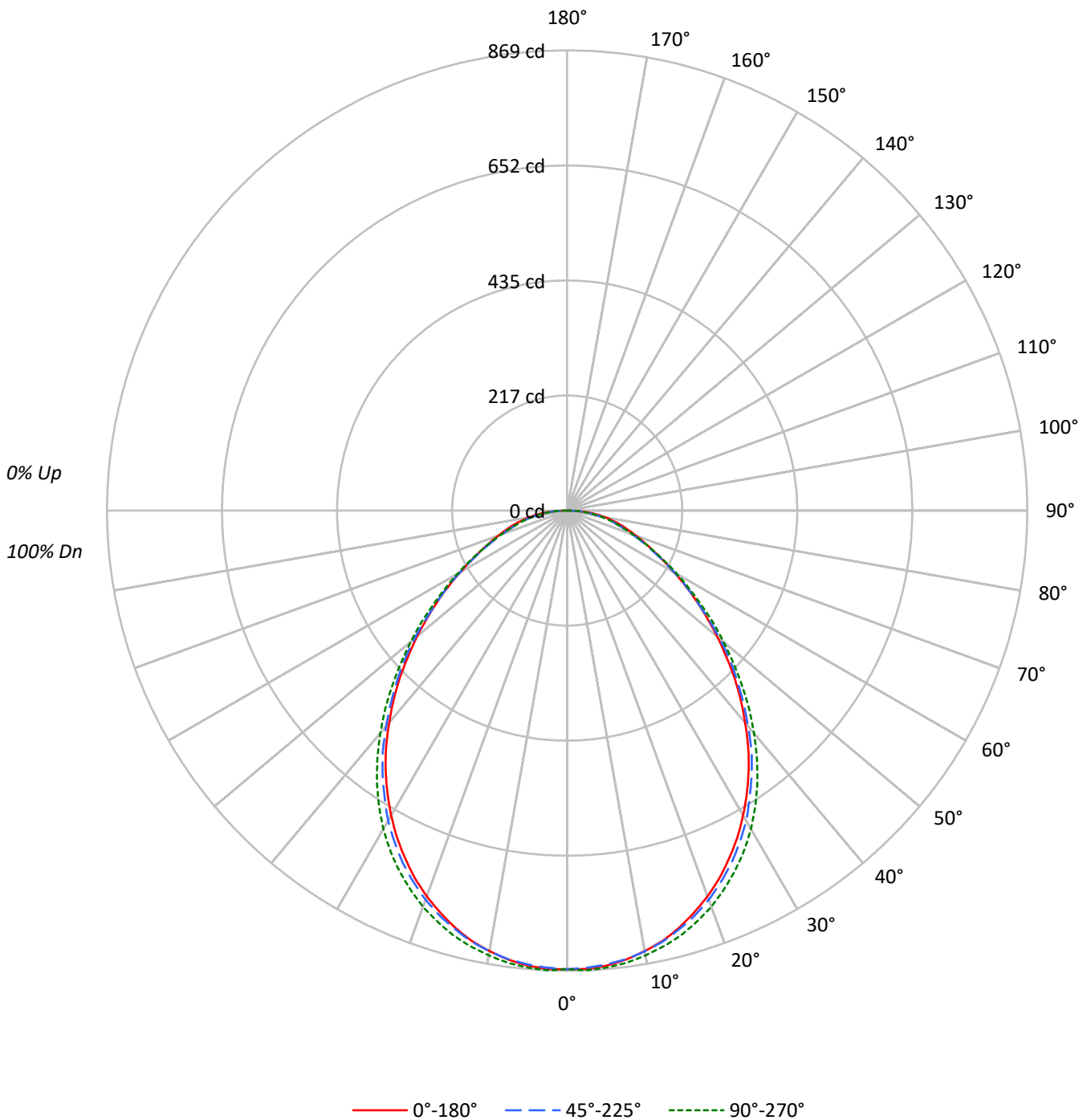
Input Watts (W): 16.182  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

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

	0°	45°	90°
0°	2331	2331	2331
5°	2330	2324	2340
10°	2308	2309	2331
15°	2273	2280	2313
20°	2220	2239	2280
25°	2150	2180	2228
30°	2065	2101	2156
35°	1964	1996	2057
40°	1837	1867	1928
45°	1700	1727	1777
50°	1549	1574	1614
55°	1398	1402	1443
60°	1254	1259	1288
65°	1143	1119	1145
70°	1088	1027	1045
75°	1095	990	995
80°	1134	1000	993
85°	1244	1059	1003



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	4.1
10°-20°	231.2	11.7
20°-30°	338.3	17.1
30°-40°	380.4	19.3
40°-50°	350.8	17.8
50°-60°	270.4	13.7
60°-70°	178.4	9.0
70°-80°	103.8	5.3
80°-90°	37.8	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°	651.3	33.0
0°-40°	1031.7	52.3
0°-60°	1652.9	83.8
0°-90°	1973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1973.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	862	861	860	864	866	82
15°	816	816	818	826	830	230
25°	724	728	734	744	750	333
35°	598	601	608	620	626	373
45°	447	447	454	463	467	344
55°	298	298	299	304	308	267
65°	180	178	176	177	180	180
75°	105	101	95	93	96	111
85°	40	40	34	32	32	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	866.2	866.2	866.2	866.2	866.2
2.5°	866.2	864.3	863.9	867.1	868.9
5°	862.5	860.7	860.2	864.3	866.2
7.5°	855.2	853.8	854.3	858.8	861.1
10°	844.6	844.2	845.1	850.1	852.9
12.5°	832.3	831.8	833.7	839.1	842.8
15°	815.8	815.8	818.5	825.9	830.4
17.5°	796.1	797.5	801.6	808.9	814.0
20°	775.1	776.4	781.9	790.2	796.1
22.5°	751.7	753.5	759.0	769.1	774.1
25°	724.2	727.9	734.3	744.4	750.3
27.5°	695.9	700.0	705.9	718.3	723.8
30°	664.7	667.5	676.2	687.6	694.0
32.5°	631.8	634.5	641.8	655.6	661.1
35°	597.9	600.6	607.5	619.9	626.3
37.5°	561.3	563.6	571.8	581.4	588.3
40°	522.8	526.0	531.5	542.9	548.9
42.5°	485.3	486.6	492.6	504.0	508.6
45°	446.8	447.3	453.7	462.8	467.0
47.5°	407.0	407.9	415.7	421.2	425.3
50°	369.9	370.4	375.9	380.9	385.5
52.5°	332.8	332.8	335.6	341.1	347.0
55°	298.0	297.6	298.9	304.0	307.6
57.5°	265.1	264.6	266.4	269.6	272.4
60°	233.0	232.1	233.9	235.8	239.4
62.5°	204.6	205.6	203.3	206.0	208.8
65°	179.5	178.5	175.8	177.2	179.9
67.5°	157.9	156.6	152.0	152.9	156.1
70°	138.3	135.5	130.5	130.5	132.8
72.5°	120.4	117.7	111.2	111.7	112.6
75°	105.3	100.7	95.2	93.4	95.7
77.5°	88.8	85.2	80.1	78.7	79.7
80°	73.2	70.5	64.5	62.7	64.1
82.5°	58.1	55.9	49.0	47.6	48.1
85°	40.3	39.8	34.3	31.6	32.5
87.5°	21.5	22.0	17.9	16.0	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)