

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: P292069

Luminaire Tested: **22GR-LD5-20-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292069  
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-5700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1960.0 lumens  
Efficiency: N/A  
Efficacy: 123.2 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

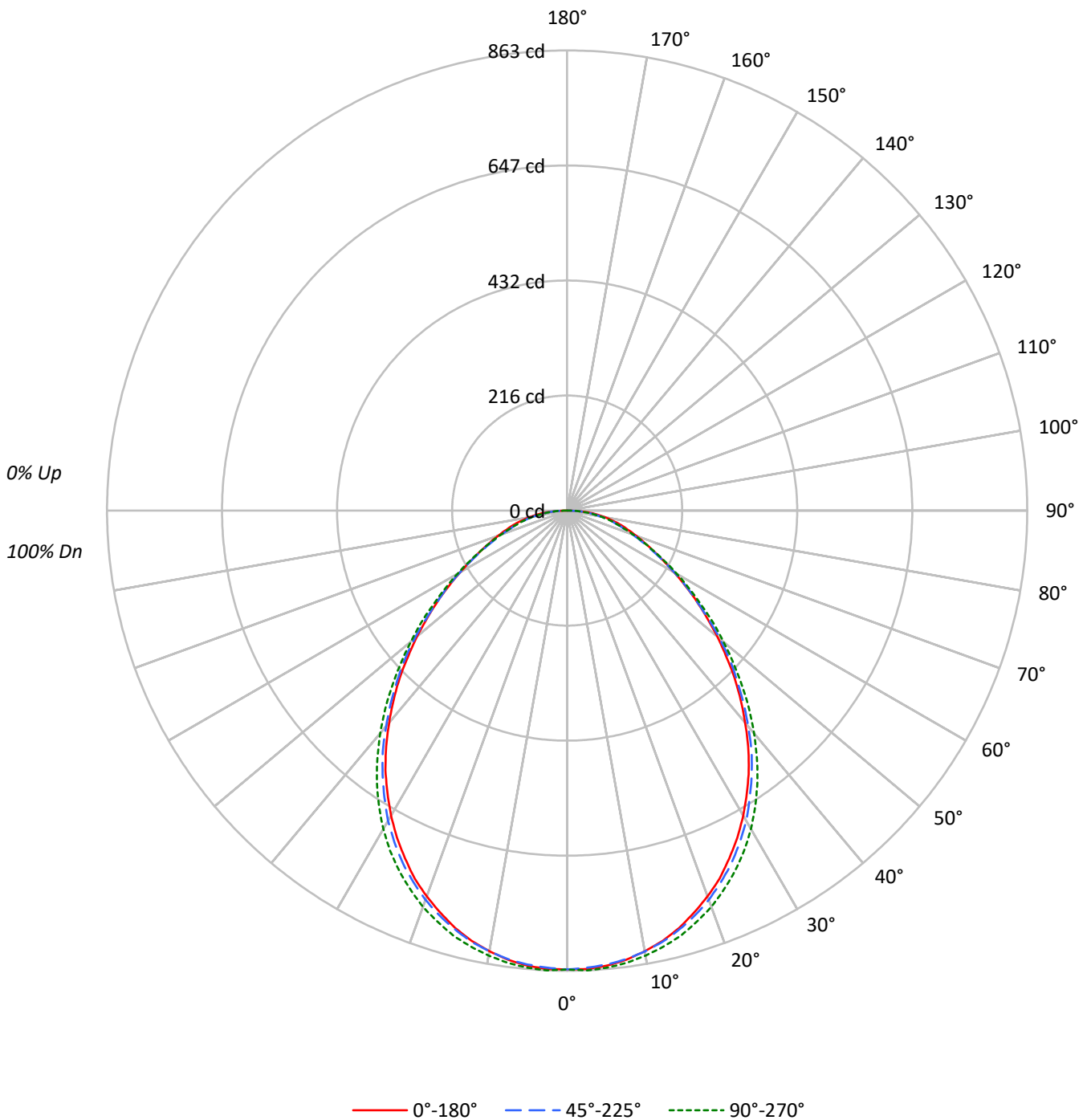
Input Watts (W): 15.903  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2315	2315	2315
5°	2314	2308	2324
10°	2293	2294	2315
15°	2258	2265	2298
20°	2205	2225	2265
25°	2136	2166	2213
30°	2052	2087	2142
35°	1951	1983	2044
40°	1825	1855	1916
45°	1689	1715	1765
50°	1539	1563	1603
55°	1389	1393	1434
60°	1246	1251	1280
65°	1135	1112	1138
70°	1080	1020	1038
75°	1088	984	988
80°	1128	993	987
85°	1235	1053	997



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.3	4.1
10°-20°	229.6	11.7
20°-30°	336.1	17.1
30°-40°	377.9	19.3
40°-50°	348.5	17.8
50°-60°	268.6	13.7
60°-70°	177.2	9.0
70°-80°	103.2	5.3
80°-90°	37.6	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°	647.0	33.0
0°-40°	1024.9	52.3
0°-60°	1642.0	83.8
0°-90°	1960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1960.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	857	855	854	859	860	81
15°	810	810	813	820	825	228
25°	720	723	730	740	745	331
35°	594	597	604	616	622	370
45°	444	444	451	460	464	342
55°	296	296	297	302	306	266
65°	178	177	175	176	179	179
75°	105	100	95	93	95	110
85°	40	40	34	31	32	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	860.4	860.4	860.4	860.4	860.4
2.5°	860.4	858.6	858.2	861.4	863.2
5°	856.8	855.0	854.5	858.6	860.4
7.5°	849.5	848.2	848.6	853.2	855.4
10°	839.1	838.6	839.5	844.5	847.3
12.5°	826.8	826.3	828.2	833.6	837.3
15°	810.4	810.4	813.2	820.4	825.0
17.5°	790.9	792.2	796.3	803.6	808.6
20°	769.9	771.3	776.8	785.0	790.9
22.5°	746.8	748.6	754.0	764.0	769.0
25°	719.5	723.1	729.5	739.5	745.4
27.5°	691.3	695.4	701.3	713.6	719.0
30°	660.3	663.1	671.7	683.1	689.5
32.5°	627.6	630.3	637.6	651.2	656.7
35°	593.9	596.7	603.5	615.8	622.1
37.5°	557.6	559.8	568.0	577.6	584.4
40°	519.4	522.5	528.0	539.4	545.3
42.5°	482.1	483.4	489.3	500.7	505.3
45°	443.9	444.3	450.7	459.8	463.9
47.5°	404.3	405.2	412.9	418.4	422.5
50°	367.5	367.9	373.4	378.4	382.9
52.5°	330.6	330.6	333.4	338.8	344.7
55°	296.1	295.6	297.0	302.0	305.6
57.5°	263.3	262.9	264.7	267.9	270.6
60°	231.5	230.6	232.4	234.2	237.9
62.5°	203.3	204.2	201.9	204.7	207.4
65°	178.3	177.4	174.6	176.0	178.7
67.5°	156.9	155.5	151.0	151.9	155.1
70°	137.3	134.6	129.6	129.6	131.9
72.5°	119.6	116.9	110.5	111.0	111.9
75°	104.6	100.1	94.6	92.8	95.0
77.5°	88.2	84.6	79.6	78.2	79.1
80°	72.8	70.0	64.1	62.3	63.7
82.5°	57.8	55.5	48.7	47.3	47.8
85°	40.0	39.6	34.1	31.4	32.3
87.5°	21.4	21.8	17.7	15.9	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)