

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: P292462

Luminaire Tested: **22GR-LD5-20-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-20-A125-UNV-L92765-W2A1-U-6500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1964.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

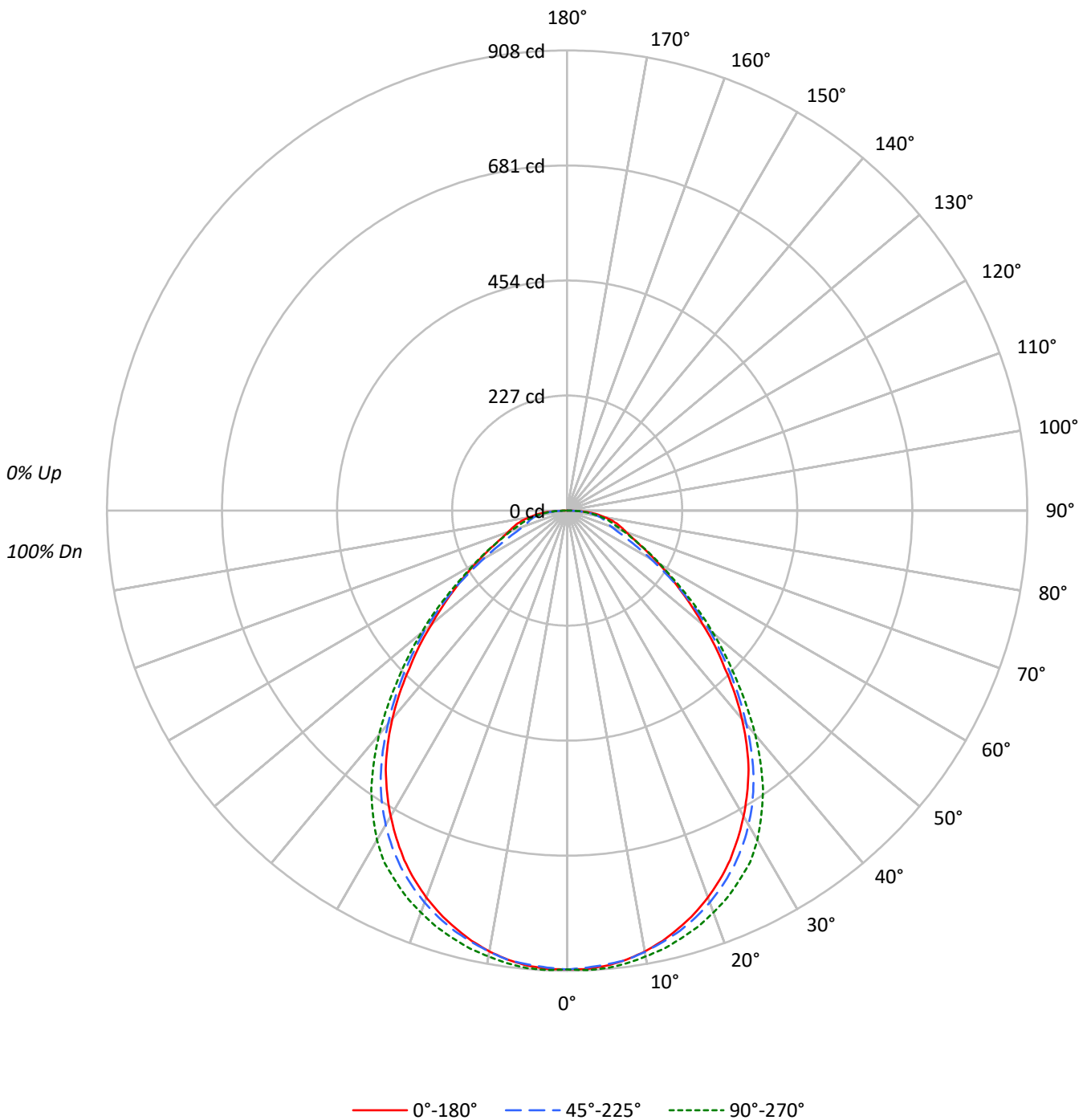
Input Watts (W): 16.182  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

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

	0°	45°	90°
0°	2436	2436	2436
5°	2434	2428	2448
10°	2414	2416	2441
15°	2375	2392	2433
20°	2326	2357	2417
25°	2258	2305	2389
30°	2164	2225	2332
35°	2050	2107	2214
40°	1885	1932	2028
45°	1675	1736	1799
50°	1463	1530	1576
55°	1272	1289	1336
60°	1119	1025	1141
65°	995	819	1000
70°	976	728	922
75°	1067	800	943
80°	1172	951	1007
85°	1399	1102	1130



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.6	4.4
10°-20°	242.6	12.4
20°-30°	358.2	18.2
30°-40°	400.8	20.4
40°-50°	352.0	17.9
50°-60°	249.1	12.7
60°-70°	145.0	7.4
70°-80°	90.4	4.6
80°-90°	40.4	2.1
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°	686.4	34.9
0°-40°	1087.2	55.4
0°-60°	1688.3	86.0
0°-90°	1964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	901	899	899	904	906	85
15°	853	854	859	868	873	240
25°	761	764	776	794	805	349
35°	624	627	642	661	674	388
45°	440	445	456	467	473	340
55°	271	277	275	280	285	245
65°	156	144	129	140	157	158
75°	103	88	77	79	91	107
85°	45	47	36	35	37	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	905.3	905.3	905.3	905.3	905.3
2.5°	905.3	903.5	902.6	905.8	907.6
5°	901.2	898.9	898.9	903.5	906.2
7.5°	893.9	891.6	894.3	898.4	901.2
10°	883.3	882.4	884.2	889.7	893.4
12.5°	869.6	870.0	871.9	880.6	885.2
15°	852.6	854.5	858.6	867.8	873.3
17.5°	834.3	835.7	842.1	852.6	860.4
20°	812.3	815.1	822.9	836.2	843.9
22.5°	788.1	791.3	800.9	816.9	826.5
25°	760.6	763.8	776.2	794.5	804.6
27.5°	729.5	734.5	748.2	768.4	782.1
30°	696.5	700.6	716.2	739.1	750.5
32.5°	661.2	666.3	680.9	702.9	713.0
35°	624.1	626.9	641.5	660.8	674.1
37.5°	582.0	583.4	597.1	615.0	626.9
40°	536.7	537.6	550.0	566.9	577.4
42.5°	489.5	490.0	503.3	516.1	525.2
45°	440.1	445.1	456.1	467.1	472.6
47.5°	395.6	399.3	409.4	419.0	424.0
50°	349.4	358.6	365.4	370.5	376.4
52.5°	309.6	317.3	319.2	325.1	330.2
55°	271.1	276.6	274.8	279.8	284.8
57.5°	238.6	235.8	229.9	238.6	245.0
60°	207.9	200.6	190.5	202.4	212.0
62.5°	180.4	168.5	156.2	168.1	184.1
65°	156.2	143.8	128.7	140.1	157.1
67.5°	137.8	125.0	107.2	118.6	135.5
70°	124.1	110.8	92.5	102.1	117.2
72.5°	113.1	98.9	82.9	89.3	102.1
75°	102.6	88.4	76.9	78.8	90.7
77.5°	90.2	79.7	70.5	69.6	78.8
80°	75.6	72.4	61.4	60.0	65.0
82.5°	62.3	60.9	50.4	49.0	50.8
85°	45.3	47.2	35.7	34.8	36.6
87.5°	23.8	26.1	18.8	19.7	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)