

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: P292323

Luminaire Tested: **22GR-LD5-20-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292323  
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-L83050-W2A1-U-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2172.0 lumens  
Efficiency: N/A  
Efficacy: 137.4 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

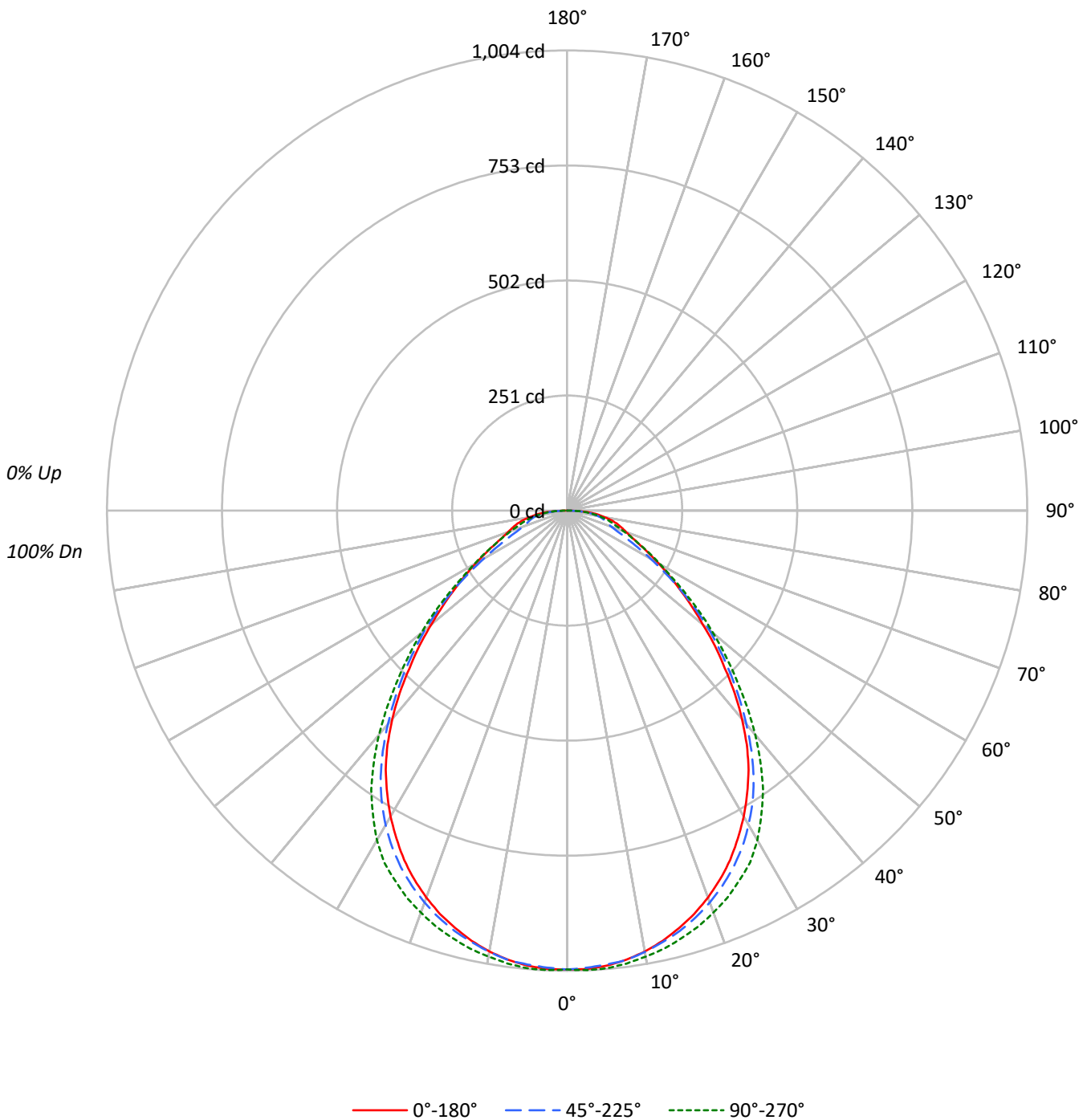
Input Watts (W): 15.81  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2694	2694	2694
5°	2692	2685	2707
10°	2669	2672	2700
15°	2627	2645	2690
20°	2573	2606	2673
25°	2498	2549	2642
30°	2394	2461	2579
35°	2267	2331	2449
40°	2085	2136	2243
45°	1852	1920	1989
50°	1618	1692	1743
55°	1407	1425	1478
60°	1237	1134	1262
65°	1100	906	1106
70°	1079	805	1020
75°	1179	885	1043
80°	1296	1052	1114
85°	1547	1220	1250



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.6	4.4
10°-20°	268.3	12.4
20°-30°	396.1	18.2
30°-40°	443.3	20.4
40°-50°	389.3	17.9
50°-60°	275.4	12.7
60°-70°	160.3	7.4
70°-80°	99.9	4.6
80°-90°	44.7	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°	759.1	34.9
0°-40°	1202.4	55.4
0°-60°	1867.0	86.0
0°-90°	2172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2172.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	997	994	994	999	1002	94
15°	943	945	950	960	966	266
25°	841	845	858	879	890	386
35°	690	693	710	731	745	429
45°	487	492	504	516	523	376
55°	300	306	304	309	315	271
65°	173	159	142	155	174	175
75°	113	98	85	87	100	118
85°	50	52	40	38	40	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1001.2	1001.2	1001.2	1001.2	1001.2
2.5°	1001.2	999.2	998.1	1001.7	1003.7
5°	996.6	994.1	994.1	999.2	1002.2
7.5°	988.5	986.0	989.0	993.6	996.6
10°	976.9	975.9	977.9	984.0	988.0
12.5°	961.7	962.2	964.2	973.8	978.9
15°	942.9	945.0	949.5	959.7	965.7
17.5°	922.7	924.2	931.3	942.9	951.6
20°	898.4	901.4	910.0	924.7	933.3
22.5°	871.5	875.1	885.7	903.4	914.1
25°	841.2	844.7	858.4	878.6	889.8
27.5°	806.7	812.3	827.5	849.8	865.0
30°	770.3	774.8	792.0	817.4	830.0
32.5°	731.3	736.8	753.0	777.3	788.5
35°	690.2	693.3	709.5	730.8	745.4
37.5°	643.7	645.2	660.4	680.1	693.3
40°	593.5	594.5	608.2	626.9	638.6
42.5°	541.4	541.9	556.6	570.7	580.9
45°	486.7	492.2	504.4	516.5	522.6
47.5°	437.5	441.6	452.7	463.4	468.9
50°	386.4	396.5	404.1	409.7	416.3
52.5°	342.3	350.9	353.0	359.6	365.1
55°	299.8	305.9	303.8	309.4	315.0
57.5°	263.8	260.8	254.2	263.8	270.9
60°	229.9	221.8	210.7	223.8	234.5
62.5°	199.5	186.4	172.7	185.9	203.6
65°	172.7	159.0	142.3	155.0	173.7
67.5°	152.4	138.3	118.5	131.2	149.9
70°	137.2	122.6	102.3	112.9	129.6
72.5°	125.1	109.4	91.7	98.8	112.9
75°	113.4	97.7	85.1	87.1	100.3
77.5°	99.8	88.1	78.0	77.0	87.1
80°	83.6	80.0	67.9	66.3	71.9
82.5°	68.9	67.4	55.7	54.2	56.2
85°	50.1	52.2	39.5	38.5	40.5
87.5°	26.3	28.9	20.8	21.8	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)