

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: P292324

Luminaire Tested: **22GR-LD5-20-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292324  
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-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2193.0 lumens  
Efficiency: N/A  
Efficacy: 135.5 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

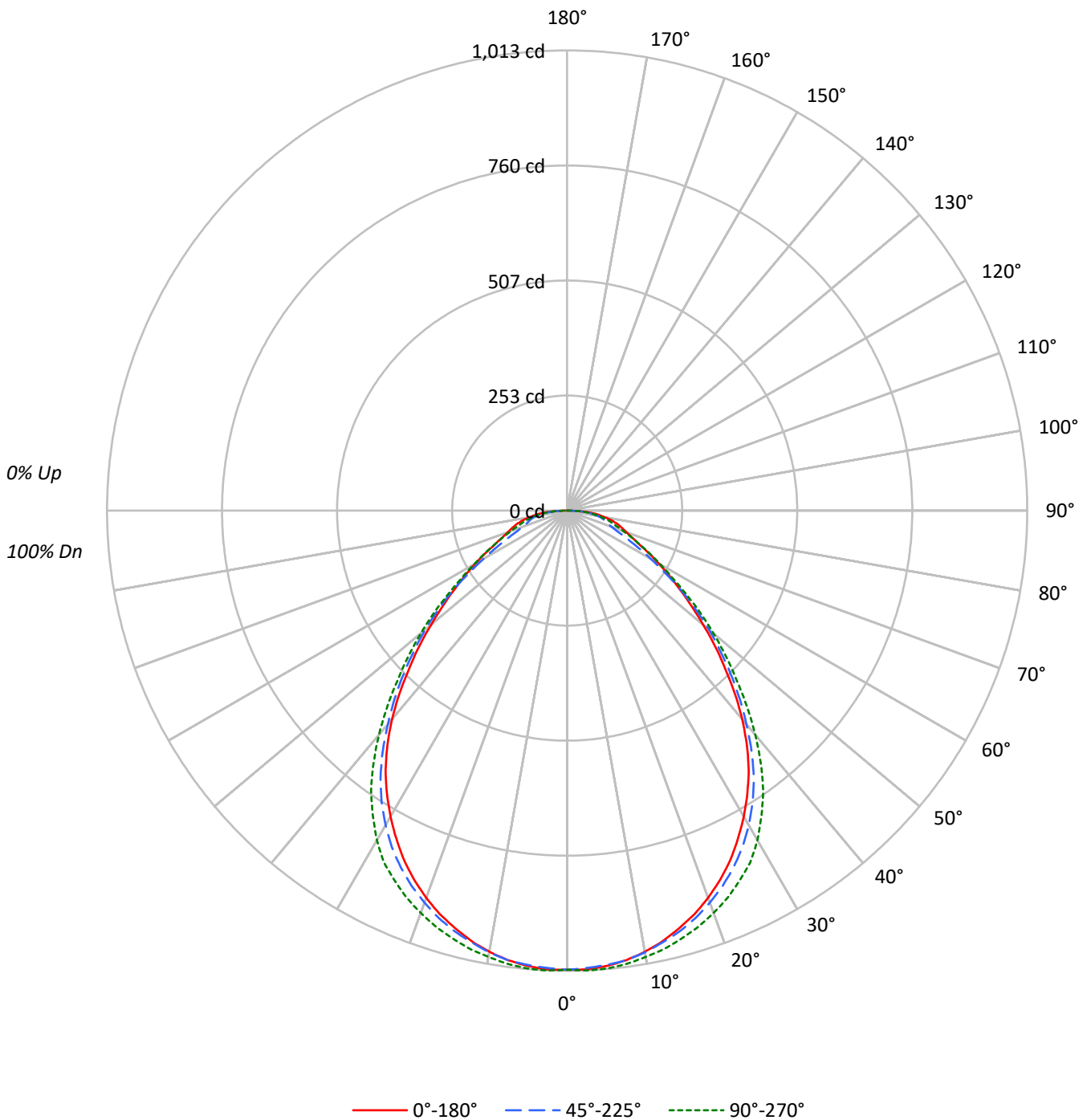
Input Watts (W): 16.182  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2720	2720	2720
5°	2718	2711	2733
10°	2695	2698	2726
15°	2652	2671	2717
20°	2598	2631	2698
25°	2522	2573	2667
30°	2417	2485	2604
35°	2289	2353	2473
40°	2105	2157	2265
45°	1870	1938	2008
50°	1633	1708	1760
55°	1420	1439	1492
60°	1249	1145	1274
65°	1110	915	1117
70°	1090	813	1030
75°	1190	893	1052
80°	1308	1062	1125
85°	1562	1232	1263



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.5	4.4
10°-20°	270.9	12.4
20°-30°	400.0	18.2
30°-40°	447.6	20.4
40°-50°	393.0	17.9
50°-60°	278.1	12.7
60°-70°	161.9	7.4
70°-80°	100.9	4.6
80°-90°	45.1	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°	766.4	34.9
0°-40°	1214.0	55.4
0°-60°	1885.1	86.0
0°-90°	2193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2193.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1006	1004	1004	1009	1012	95
15°	952	954	959	969	975	268
25°	849	853	867	887	898	390
35°	697	700	716	738	753	433
45°	491	497	509	522	528	380
55°	303	309	307	312	318	274
65°	174	161	144	156	175	177
75°	114	99	86	88	101	120
85°	51	53	40	39	41	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1010.9	1010.9	1010.9	1010.9	1010.9
2.5°	1010.9	1008.8	1007.8	1011.4	1013.4
5°	1006.3	1003.7	1003.7	1008.8	1011.9
7.5°	998.1	995.5	998.6	1003.2	1006.3
10°	986.3	985.3	987.3	993.5	997.6
12.5°	971.0	971.5	973.5	983.3	988.4
15°	952.1	954.1	958.7	968.9	975.1
17.5°	931.6	933.1	940.3	952.1	960.8
20°	907.1	910.1	918.8	933.7	942.3
22.5°	880.0	883.5	894.3	912.2	922.9
25°	849.3	852.9	866.7	887.1	898.4
27.5°	814.5	820.1	835.5	858.0	873.3
30°	777.7	782.3	799.7	825.3	838.0
32.5°	738.3	744.0	760.3	784.9	796.1
35°	696.9	700.0	716.3	737.8	752.7
37.5°	649.9	651.4	666.8	686.7	700.0
40°	599.3	600.3	614.1	633.0	644.8
42.5°	546.6	547.1	561.9	576.2	586.5
45°	491.4	497.0	509.3	521.5	527.7
47.5°	441.8	445.9	457.1	467.9	473.5
50°	390.1	400.4	408.0	413.7	420.3
52.5°	345.6	354.3	356.4	363.0	368.7
55°	302.7	308.8	306.8	312.4	318.0
57.5°	266.4	263.3	256.7	266.4	273.6
60°	232.1	224.0	212.7	226.0	236.7
62.5°	201.5	188.2	174.4	187.7	205.5
65°	174.4	160.6	143.7	156.5	175.4
67.5°	153.9	139.6	119.6	132.4	151.3
70°	138.6	123.7	103.3	114.0	130.9
72.5°	126.3	110.4	92.5	99.7	114.0
75°	114.5	98.7	85.9	87.9	101.2
77.5°	100.7	89.0	78.7	77.7	87.9
80°	84.4	80.8	68.5	67.0	72.6
82.5°	69.5	68.0	56.2	54.7	56.8
85°	50.6	52.7	39.9	38.9	40.9
87.5°	26.6	29.1	21.0	22.0	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)