

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: P292363

Luminaire Tested: **22GR-LD5-20-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292363
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-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2157.0 lumens
Efficiency: N/A
Efficacy: 135.6 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

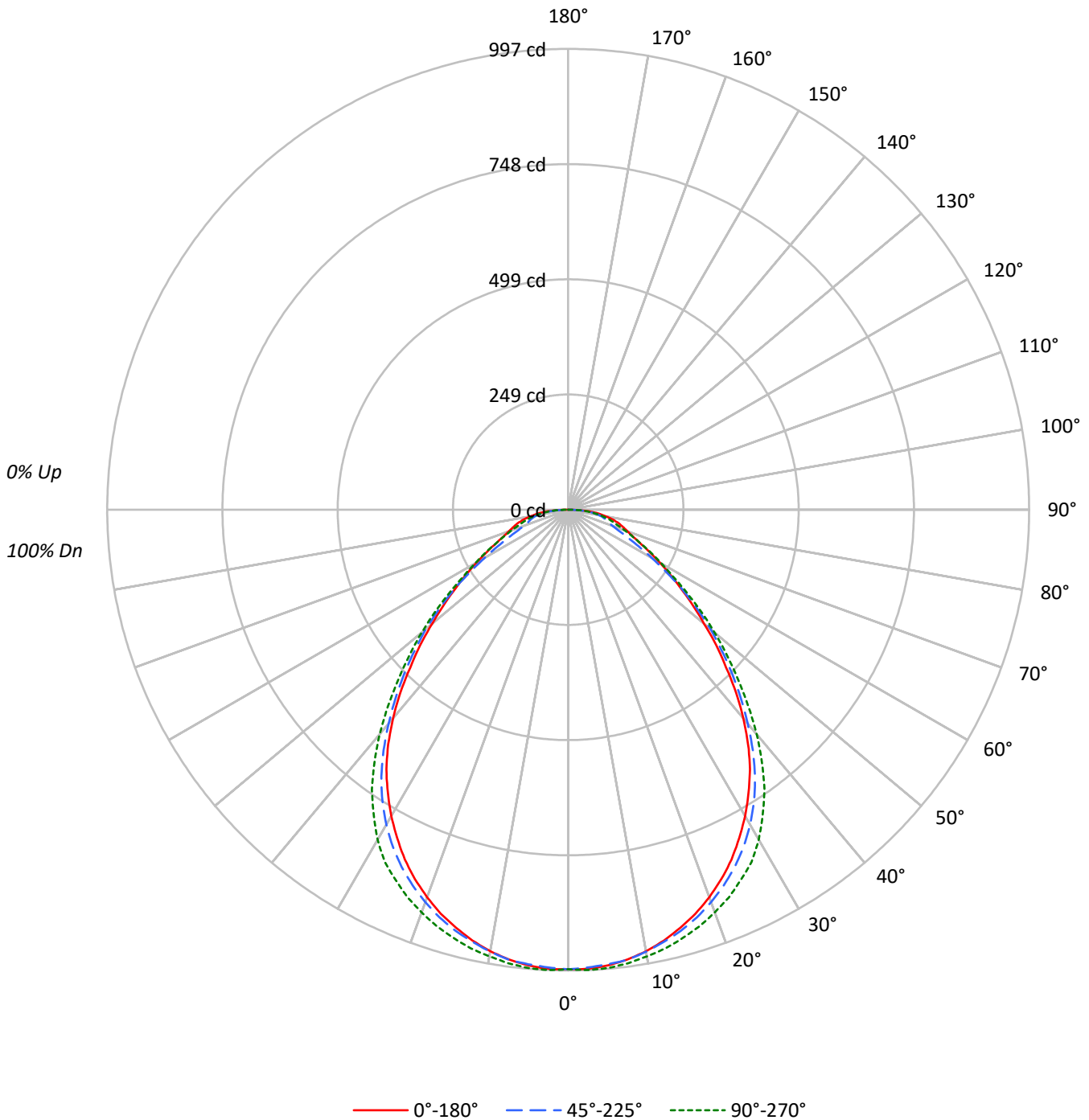
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2676	2676	2676
5°	2673	2667	2689
10°	2651	2654	2681
15°	2609	2627	2672
20°	2555	2588	2654
25°	2480	2531	2624
30°	2377	2444	2561
35°	2252	2315	2432
40°	2070	2122	2228
45°	1839	1906	1975
50°	1606	1680	1731
55°	1397	1416	1468
60°	1229	1126	1253
65°	1092	900	1098
70°	1072	799	1013
75°	1172	879	1036
80°	1286	1044	1106
85°	1538	1210	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	4.4
10°-20°	266.5	12.4
20°-30°	393.4	18.2
30°-40°	440.2	20.4
40°-50°	386.6	17.9
50°-60°	273.5	12.7
60°-70°	159.2	7.4
70°-80°	99.2	4.6
80°-90°	44.4	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°	753.8	34.9
0°-40°	1194.0	55.4
0°-60°	1854.2	86.0
0°-90°	2157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	990	987	987	992	995	94
15°	936	938	943	953	959	264
25°	835	839	852	873	884	384
35°	686	688	705	726	740	426
45°	483	489	501	513	519	374
55°	298	304	302	307	313	269
65°	172	158	141	154	172	174
75°	113	97	84	86	100	118
85°	50	52	39	38	40	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.3	994.3	994.3	994.3	994.3
2.5°	994.3	992.3	991.3	994.8	996.8
5°	989.7	987.2	987.2	992.3	995.3
7.5°	981.7	979.2	982.2	986.7	989.7
10°	970.1	969.1	971.1	977.2	981.2
12.5°	955.0	955.5	957.6	967.1	972.1
15°	936.4	938.4	943.0	953.0	959.1
17.5°	916.3	917.8	924.9	936.4	945.0
20°	892.2	895.2	903.7	918.3	926.9
22.5°	865.5	869.0	879.6	897.2	907.8
25°	835.3	838.9	852.4	872.6	883.6
27.5°	801.1	806.7	821.8	843.9	859.0
30°	764.9	769.5	786.6	811.7	824.3
32.5°	726.2	731.7	747.8	772.0	783.0
35°	685.5	688.5	704.6	725.7	740.3
37.5°	639.2	640.7	655.8	675.4	688.5
40°	589.4	590.4	604.0	622.6	634.2
42.5°	537.6	538.1	552.7	566.8	576.8
45°	483.3	488.8	500.9	513.0	519.0
47.5°	434.5	438.5	449.6	460.2	465.7
50°	383.7	393.8	401.3	406.9	413.4
52.5°	340.0	348.5	350.5	357.1	362.6
55°	297.7	303.8	301.8	307.3	312.8
57.5°	262.0	259.0	252.5	262.0	269.1
60°	228.3	220.3	209.2	222.3	232.9
62.5°	198.1	185.1	171.5	184.6	202.2
65°	171.5	157.9	141.3	153.9	172.5
67.5°	151.4	137.3	117.7	130.3	148.9
70°	136.3	121.7	101.6	112.2	128.7
72.5°	124.2	108.6	91.0	98.1	112.2
75°	112.7	97.1	84.5	86.5	99.6
77.5°	99.1	87.5	77.4	76.4	86.5
80°	83.0	79.5	67.4	65.9	71.4
82.5°	68.4	66.9	55.3	53.8	55.8
85°	49.8	51.8	39.2	38.2	40.2
87.5°	26.2	28.7	20.6	21.6	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)