

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: P292421

Luminaire Tested: **22GR-LD5-20-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292421
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-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1900.0 lumens
Efficiency: N/A
Efficacy: 120.2 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

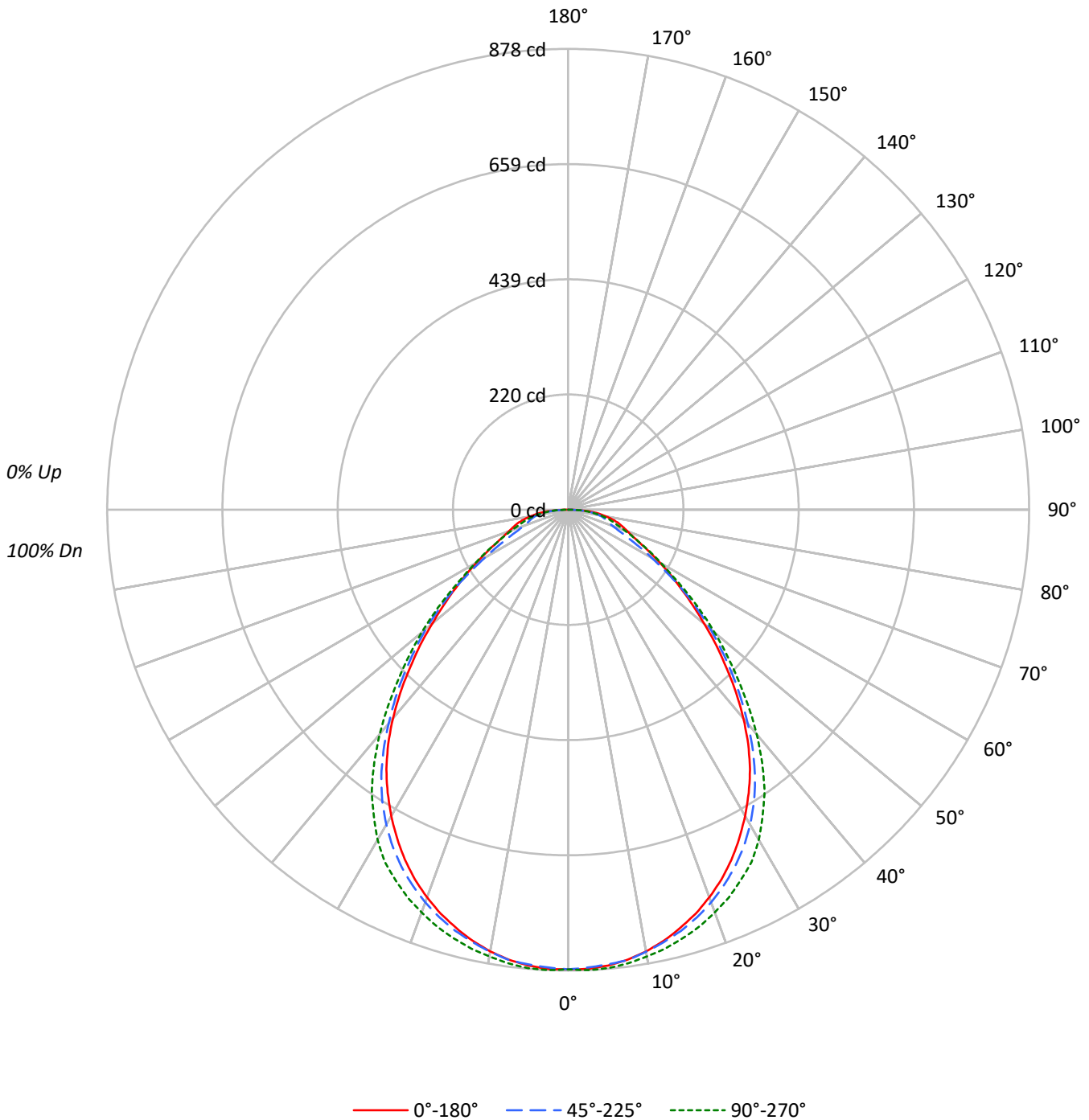
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292421

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P292421

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L93050-W2A1-U-4000K

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°	2357	2357	2357
5°	2355	2349	2368
10°	2335	2337	2362
15°	2298	2314	2354
20°	2251	2280	2338
25°	2185	2230	2311
30°	2094	2153	2256
35°	1984	2039	2142
40°	1824	1869	1962
45°	1620	1679	1740
50°	1415	1480	1524
55°	1231	1247	1293
60°	1082	992	1104
65°	962	793	967
70°	945	704	892
75°	1031	774	912
80°	1133	921	975
85°	1355	1068	1093



TEST NUMBER: P292421

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	4.4
10°-20°	234.7	12.4
20°-30°	346.5	18.2
30°-40°	387.8	20.4
40°-50°	340.5	17.9
50°-60°	240.9	12.7
60°-70°	140.2	7.4
70°-80°	87.4	4.6
80°-90°	39.1	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°	664.0	34.9
0°-40°	1051.8	55.4
0°-60°	1633.2	86.0
0°-90°	1900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	872	870	870	874	877	83
15°	825	827	831	840	845	232
25°	736	739	751	769	778	338
35°	604	606	621	639	652	376
45°	426	431	441	452	457	329
55°	262	268	266	271	276	237
65°	151	139	124	136	152	153
75°	99	86	74	76	88	104
85°	44	46	35	34	35	45
90°	0	0	0	0	0	



TEST NUMBER: P292421

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.8	875.8	875.8	875.8	875.8
2.5°	875.8	874.0	873.1	876.2	878.0
5°	871.8	869.6	869.6	874.0	876.7
7.5°	864.7	862.5	865.2	869.2	871.8
10°	854.5	853.7	855.4	860.7	864.3
12.5°	841.3	841.7	843.5	851.9	856.3
15°	824.9	826.6	830.6	839.5	844.8
17.5°	807.1	808.5	814.7	824.9	832.4
20°	785.9	788.5	796.1	808.9	816.4
22.5°	762.4	765.5	774.8	790.3	799.6
25°	735.8	738.9	750.9	768.6	778.3
27.5°	705.7	710.6	723.9	743.3	756.6
30°	673.8	677.8	692.8	715.0	726.1
32.5°	639.7	644.6	658.7	680.0	689.7
35°	603.8	606.5	620.6	639.2	652.1
37.5°	563.0	564.4	577.7	594.9	606.5
40°	519.2	520.1	532.0	548.4	558.6
42.5°	473.6	474.0	486.9	499.3	508.1
45°	425.7	430.6	441.2	451.9	457.2
47.5°	382.7	386.3	396.0	405.3	410.2
50°	338.0	346.9	353.5	358.4	364.1
52.5°	299.5	307.0	308.8	314.5	319.4
55°	262.3	267.6	265.8	270.7	275.5
57.5°	230.8	228.1	222.4	230.8	237.0
60°	201.1	194.0	184.3	195.8	205.1
62.5°	174.5	163.0	151.1	162.6	178.1
65°	151.1	139.1	124.5	135.6	151.9
67.5°	133.3	120.9	103.7	114.7	131.1
70°	120.1	107.2	89.5	98.8	113.4
72.5°	109.4	95.7	80.2	86.4	98.8
75°	99.2	85.5	74.4	76.2	87.7
77.5°	87.3	77.1	68.2	67.3	76.2
80°	73.1	70.0	59.4	58.0	62.9
82.5°	60.2	58.9	48.7	47.4	49.2
85°	43.9	45.6	34.6	33.7	35.4
87.5°	23.0	25.3	18.2	19.0	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)