

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: P292364

Luminaire Tested: **22GR-LD5-20-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292364
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2163.0 lumens
Efficiency: N/A
Efficacy: 134.4 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

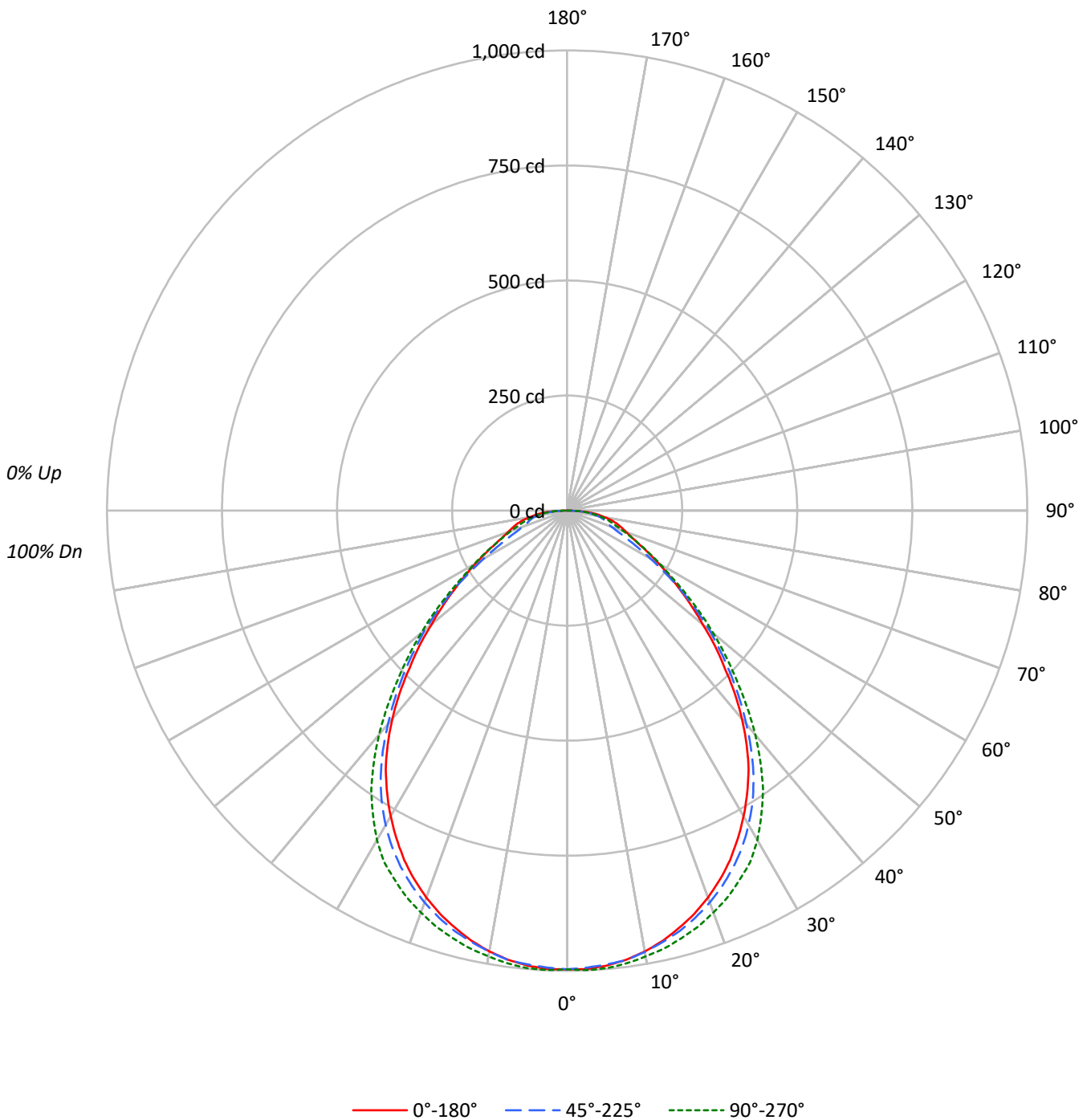
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292364

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P292364

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L82765-W2A1-U-6500K

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°	2683	2683	2683
5°	2681	2674	2696
10°	2658	2661	2688
15°	2616	2634	2679
20°	2562	2595	2662
25°	2487	2538	2631
30°	2384	2451	2568
35°	2258	2321	2439
40°	2076	2128	2234
45°	1844	1912	1981
50°	1611	1685	1735
55°	1401	1420	1472
60°	1232	1129	1257
65°	1095	902	1102
70°	1076	802	1016
75°	1175	881	1039
80°	1289	1048	1110
85°	1541	1213	1244



TEST NUMBER: P292364

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	4.4
10°-20°	267.2	12.4
20°-30°	394.5	18.2
30°-40°	441.4	20.4
40°-50°	387.7	17.9
50°-60°	274.3	12.7
60°-70°	159.7	7.4
70°-80°	99.5	4.6
80°-90°	44.5	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°	756.0	34.9
0°-40°	1197.4	55.4
0°-60°	1859.3	86.0
0°-90°	2163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	992	990	990	995	998	94
15°	939	941	946	956	962	265
25°	838	841	855	875	886	385
35°	687	690	706	728	742	427
45°	485	490	502	514	520	375
55°	299	305	303	308	314	270
65°	172	158	142	154	173	174
75°	113	97	85	87	100	118
85°	50	52	39	38	40	51
90°	0	0	0	0	0	



TEST NUMBER: P292364

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.0	997.0	997.0	997.0	997.0
2.5°	997.0	995.0	994.0	997.5	999.6
5°	992.5	990.0	990.0	995.0	998.0
7.5°	984.4	981.9	984.9	989.5	992.5
10°	972.8	971.8	973.8	979.9	983.9
12.5°	957.7	958.2	960.2	969.8	974.8
15°	939.0	941.1	945.6	955.7	961.7
17.5°	918.9	920.4	927.4	939.0	947.6
20°	894.7	897.7	906.3	920.9	929.5
22.5°	867.9	871.5	882.1	899.7	910.3
25°	837.7	841.2	854.8	875.0	886.1
27.5°	803.4	808.9	824.1	846.2	861.4
30°	767.1	771.6	788.8	814.0	826.6
32.5°	728.2	733.8	749.9	774.1	785.2
35°	687.4	690.4	706.5	727.7	742.4
37.5°	641.0	642.5	657.6	677.3	690.4
40°	591.1	592.1	605.7	624.3	635.9
42.5°	539.1	539.6	554.2	568.4	578.5
45°	484.6	490.2	502.3	514.4	520.5
47.5°	435.7	439.8	450.9	461.5	467.0
50°	384.8	394.9	402.4	408.0	414.5
52.5°	340.9	349.5	351.5	358.1	363.6
55°	298.6	304.6	302.6	308.1	313.7
57.5°	262.7	259.7	253.2	262.7	269.8
60°	229.0	220.9	209.8	222.9	233.5
62.5°	198.7	185.6	172.0	185.1	202.7
65°	172.0	158.4	141.7	154.3	173.0
67.5°	151.8	137.7	118.0	130.6	149.3
70°	136.7	122.0	101.9	112.5	129.1
72.5°	124.6	108.9	91.3	98.3	112.5
75°	113.0	97.3	84.7	86.7	99.9
77.5°	99.4	87.8	77.7	76.7	86.7
80°	83.2	79.7	67.6	66.1	71.6
82.5°	68.6	67.1	55.5	54.0	56.0
85°	49.9	51.9	39.3	38.3	40.3
87.5°	26.2	28.7	20.7	21.7	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)