

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: P292378

Luminaire Tested: **22GR-LD5-28-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292378
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-LD5-28-A125-UNV-L82765-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: 2950.0 lumens
Efficiency: N/A
Efficacy: 131.6 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

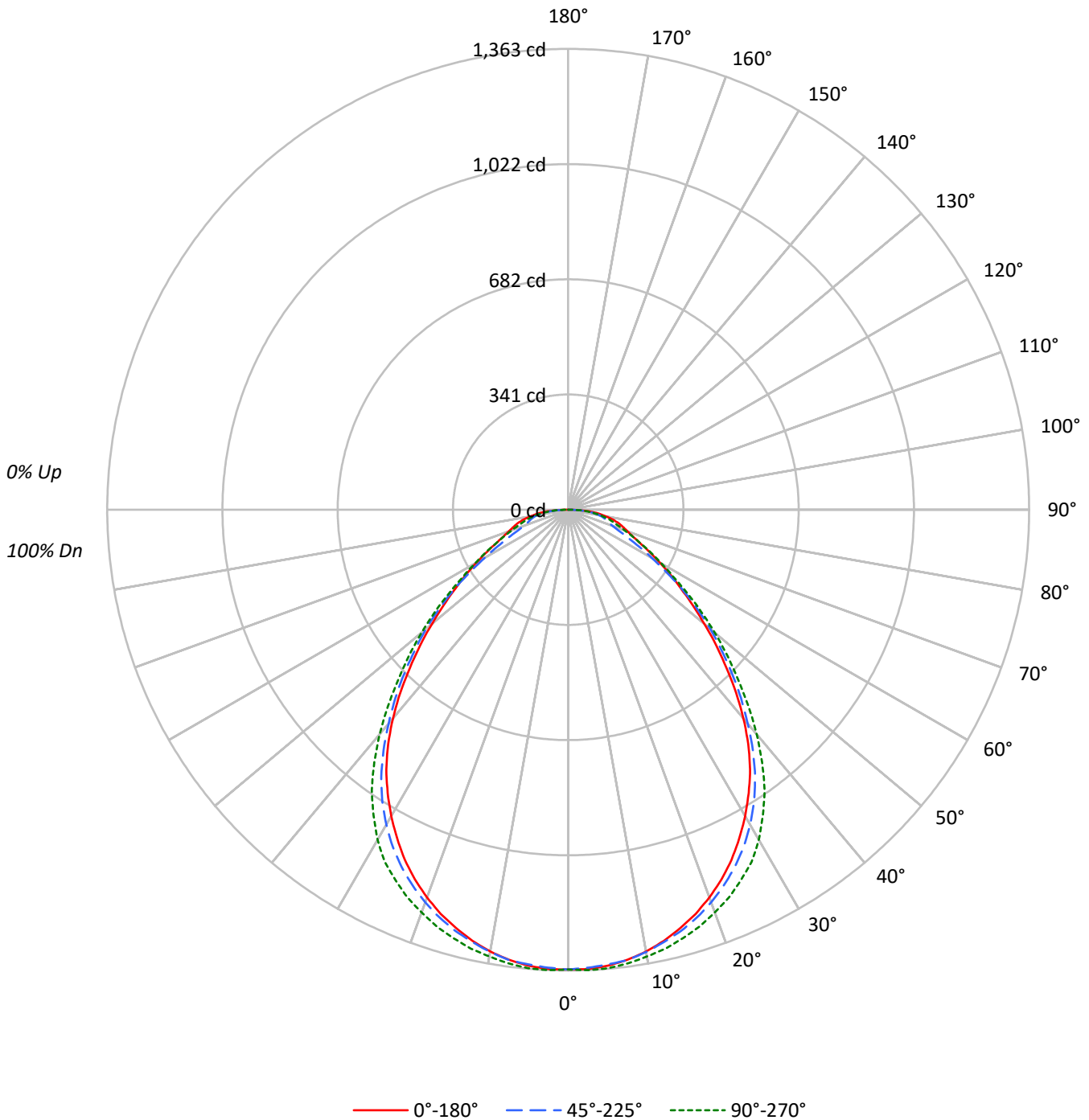
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292378

CATALOG NUMBER: 22GR-LD5-28-A125-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P292378

CATALOG NUMBER: 22GR-LD5-28-A125-UNV-L82765-W2A1-U-4500K

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°	3659	3659	3659
5°	3656	3647	3677
10°	3625	3629	3667
15°	3568	3593	3654
20°	3494	3540	3630
25°	3392	3461	3588
30°	3251	3342	3503
35°	3080	3166	3326
40°	2832	2902	3047
45°	2516	2607	2701
50°	2197	2298	2367
55°	1910	1936	2007
60°	1681	1540	1714
65°	1493	1231	1502
70°	1467	1093	1386
75°	1602	1202	1416
80°	1759	1429	1514
85°	2103	1655	1698



TEST NUMBER: P292378

CATALOG NUMBER: 22GR-LD5-28-A125-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	4.4
10°-20°	364.5	12.4
20°-30°	538.0	18.2
30°-40°	602.0	20.4
40°-50°	528.7	17.9
50°-60°	374.1	12.7
60°-70°	217.7	7.4
70°-80°	135.7	4.6
80°-90°	60.7	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°	1031.0	34.9
0°-40°	1633.0	55.4
0°-60°	2535.8	86.0
0°-90°	2950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1354	1350	1350	1357	1361	128
15°	1281	1284	1290	1303	1312	361
25°	1142	1147	1166	1193	1208	525
35°	938	942	964	992	1012	583
45°	661	669	685	702	710	511
55°	407	415	413	420	428	368
65°	234	216	193	210	236	238
75°	154	133	116	118	136	161
85°	68	71	54	52	55	69
90°	0	0	0	0	0	



TEST NUMBER: P292378

CATALOG NUMBER: 22GR-LD5-28-A125-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1359.8	1359.8	1359.8	1359.8	1359.8
2.5°	1359.8	1357.1	1355.7	1360.5	1363.2
5°	1353.6	1350.2	1350.2	1357.1	1361.2
7.5°	1342.6	1339.2	1343.3	1349.5	1353.6
10°	1326.8	1325.4	1328.2	1336.4	1341.9
12.5°	1306.2	1306.8	1309.6	1322.7	1329.5
15°	1280.7	1283.5	1289.6	1303.4	1311.7
17.5°	1253.2	1255.3	1264.9	1280.7	1292.4
20°	1220.2	1224.3	1236.0	1255.9	1267.6
22.5°	1183.7	1188.5	1203.0	1227.1	1241.5
25°	1142.5	1147.3	1165.8	1193.4	1208.5
27.5°	1095.7	1103.3	1123.9	1154.1	1174.8
30°	1046.2	1052.4	1075.7	1110.1	1127.3
32.5°	993.2	1000.8	1022.8	1055.8	1070.9
35°	937.5	941.6	963.6	992.5	1012.5
37.5°	874.2	876.3	896.9	923.7	941.6
40°	806.1	807.5	826.1	851.5	867.3
42.5°	735.3	736.0	755.9	775.2	788.9
45°	661.0	668.6	685.1	701.6	709.8
47.5°	594.3	599.8	614.9	629.3	636.9
50°	524.8	538.6	548.9	556.4	565.4
52.5°	465.0	476.7	479.4	488.3	495.9
55°	407.2	415.4	412.7	420.3	427.8
57.5°	358.3	354.2	345.3	358.3	368.0
60°	312.3	301.3	286.1	304.0	318.5
62.5°	271.0	253.1	234.5	252.4	276.5
65°	234.5	216.0	193.3	210.5	235.9
67.5°	207.0	187.8	160.9	178.1	203.6
70°	186.4	166.5	138.9	153.4	176.1
72.5°	169.9	148.6	124.5	134.1	153.4
75°	154.1	132.7	115.6	118.3	136.2
77.5°	135.5	119.7	105.9	104.5	118.3
80°	113.5	108.7	92.2	90.1	97.7
82.5°	93.5	91.5	75.7	73.6	76.3
85°	68.1	70.8	53.6	52.3	55.0
87.5°	35.8	39.2	28.2	29.6	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)