

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: P475967

Luminaire Tested: **22GR-LD5-28-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475967
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F125-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2896.8 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

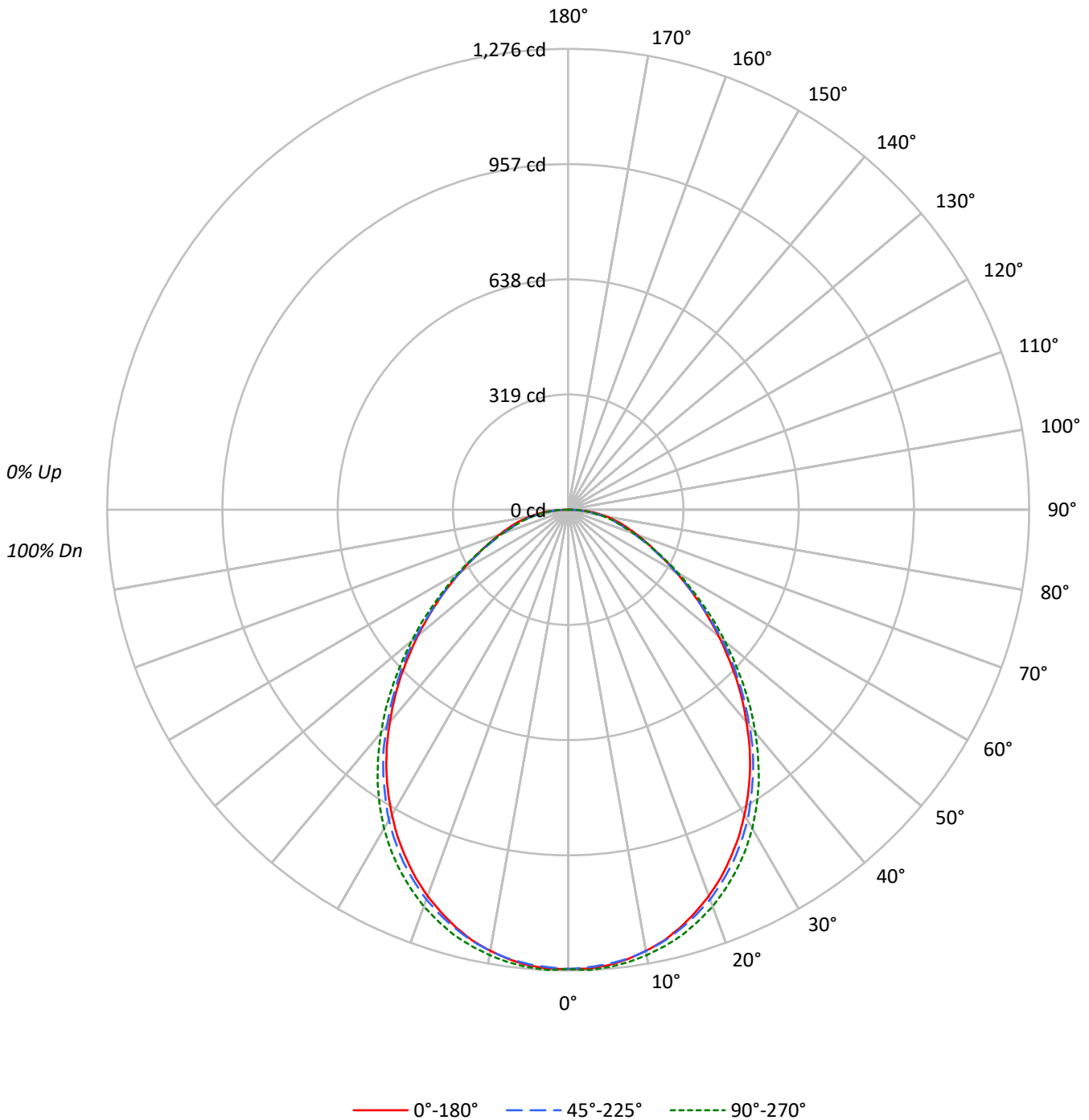
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475967

CATALOG NUMBER: 22GR-LD5-28-F125-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475967

CATALOG NUMBER: 22GR-LD5-28-F125-UNV-L850-CD1-U

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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3422	3422	3422
5°	3421	3411	3435
10°	3389	3391	3422
15°	3337	3348	3397
20°	3259	3288	3347
25°	3157	3201	3271
30°	3032	3085	3166
35°	2884	2930	3021
40°	2697	2741	2831
45°	2496	2535	2609
50°	2274	2310	2370
55°	2053	2059	2119
60°	1841	1848	1892
65°	1678	1643	1682
70°	1596	1507	1533
75°	1606	1454	1461
80°	1667	1469	1458
85°	1828	1553	1473



TEST NUMBER: P475967

CATALOG NUMBER: 22GR-LD5-28-F125-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	4.1
10°-20°	339.4	11.7
20°-30°	496.8	17.1
30°-40°	558.5	19.3
40°-50°	515.1	17.8
50°-60°	397.0	13.7
60°-70°	261.9	9.0
70°-80°	152.4	5.3
80°-90°	55.5	1.9
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°	956.3	33.0
0°-40°	1514.8	52.3
0°-60°	2426.9	83.8
0°-90°	2896.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2896.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1266	1264	1263	1269	1272	120
15°	1198	1198	1202	1213	1219	337
25°	1063	1069	1078	1093	1102	489
35°	878	882	892	910	920	547
45°	656	657	666	680	686	505
55°	438	437	439	446	452	393
65°	264	262	258	260	264	264
75°	154	148	140	137	140	163
85°	59	58	50	46	48	63
90°	0	0	0	0	0	



TEST NUMBER: P475967

CATALOG NUMBER: 22GR-LD5-28-F125-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1271.6	1271.6	1271.6	1271.6	1271.6
2.5°	1271.6	1269.0	1268.3	1273.1	1275.7
5°	1266.3	1263.6	1262.9	1269.0	1271.6
7.5°	1255.6	1253.5	1254.2	1261.0	1264.3
10°	1240.2	1239.5	1240.9	1248.2	1252.3
12.5°	1222.0	1221.3	1224.0	1232.0	1237.5
15°	1197.8	1197.8	1201.8	1212.6	1219.4
17.5°	1168.9	1170.8	1176.9	1187.7	1195.0
20°	1137.9	1140.0	1148.1	1160.1	1168.9
22.5°	1103.6	1106.4	1114.4	1129.2	1136.7
25°	1063.4	1068.7	1078.2	1092.9	1101.6
27.5°	1021.6	1027.7	1036.4	1054.7	1062.7
30°	975.9	980.0	992.8	1009.5	1018.9
32.5°	927.5	931.6	942.3	962.6	970.6
35°	877.8	881.8	892.0	910.1	919.5
37.5°	824.0	827.4	839.5	853.6	863.7
40°	767.7	772.3	780.3	797.2	805.9
42.5°	712.6	714.5	723.2	740.1	746.7
45°	656.0	656.7	666.1	679.5	685.5
47.5°	597.5	598.9	610.3	618.3	624.4
50°	543.1	543.8	551.8	559.3	566.0
52.5°	488.7	488.7	492.8	500.8	509.5
55°	437.6	436.9	438.9	446.3	451.7
57.5°	389.3	388.6	391.2	395.8	399.9
60°	342.1	340.7	343.4	346.2	351.6
62.5°	300.5	301.8	298.4	302.5	306.6
65°	263.5	262.1	258.0	260.2	264.1
67.5°	231.9	229.9	223.2	224.4	229.2
70°	202.9	199.0	191.5	191.5	194.9
72.5°	176.8	172.7	163.2	164.0	165.4
75°	154.5	148.0	139.8	137.1	140.5
77.5°	130.3	125.0	117.5	115.6	117.0
80°	107.6	103.5	94.8	92.1	94.1
82.5°	85.4	82.0	71.8	69.9	70.6
85°	59.2	58.5	50.3	46.4	47.7
87.5°	31.7	32.2	26.1	23.5	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)