

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: P475952

Luminaire Tested: **22GR-LD5-90-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475952
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-90-F125-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9057.9 lumens
Efficiency: N/A
Efficacy: 130.7 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

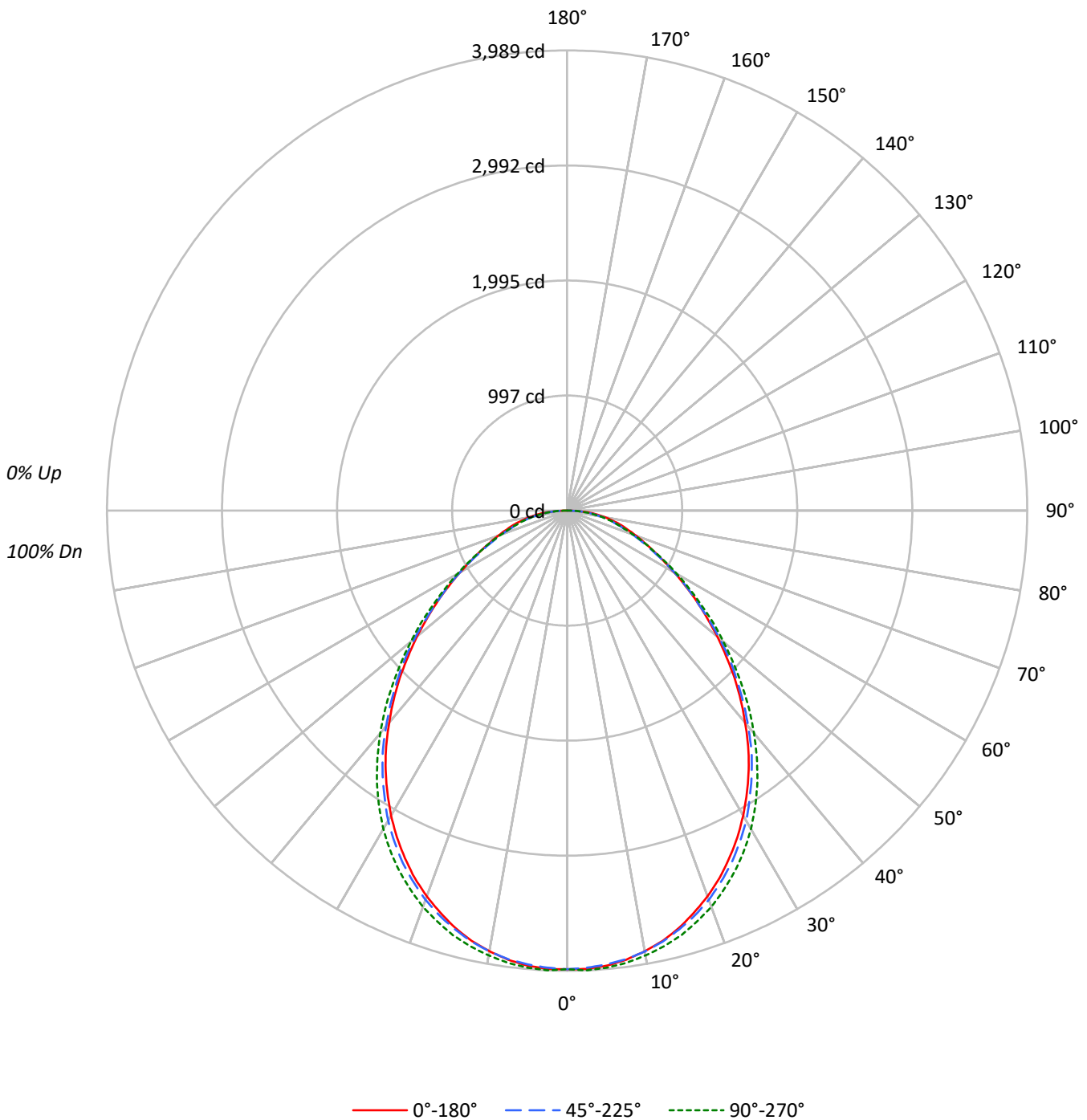
Input Watts (W): 69.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475952

CATALOG NUMBER: 22GR-LD5-90-F125-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475952

CATALOG NUMBER: 22GR-LD5-90-F125-UNV-L835-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	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					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10700	10700	10700
5°	10696	10667	10741
10°	10596	10602	10700
15°	10435	10469	10622
20°	10189	10280	10466
25°	9873	10010	10228
30°	9482	9646	9900
35°	9016	9162	9446
40°	8433	8571	8852
45°	7806	7927	8158
50°	7109	7223	7410
55°	6420	6438	6626
60°	5758	5779	5916
65°	5247	5137	5258
70°	4991	4712	4795
75°	5024	4545	4567
80°	5213	4593	4558
85°	5718	4860	4600



TEST NUMBER: P475952

CATALOG NUMBER: 22GR-LD5-90-F125-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.7	4.1
10°-20°	1061.3	11.7
20°-30°	1553.3	17.1
30°-40°	1746.4	19.3
40°-50°	1610.6	17.8
50°-60°	1241.3	13.7
60°-70°	819.1	9.0
70°-80°	476.7	5.3
80°-90°	173.6	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°	2990.2	33.0
0°-40°	4736.6	52.3
0°-60°	7588.5	83.8
0°-90°	9057.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9057.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3976	3976	3976	3976	3976	
5°	3960	3951	3949	3968	3976	375
15°	3746	3746	3758	3792	3813	1054
25°	3325	3342	3371	3418	3445	1529
35°	2745	2757	2789	2846	2875	1711
45°	2051	2054	2083	2125	2144	1580
55°	1368	1366	1372	1396	1412	1228
65°	824	820	807	814	826	826
75°	483	463	437	429	439	509
85°	185	183	157	145	149	196
90°	0	0	0	0	0	



TEST NUMBER: P475952

CATALOG NUMBER: 22GR-LD5-90-F125-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3976.3	3976.3	3976.3	3976.3	3976.3
2.5°	3976.3	3967.9	3965.7	3980.7	3989.1
5°	3959.6	3951.3	3949.0	3967.9	3976.3
7.5°	3926.2	3919.6	3921.8	3942.9	3953.5
10°	3877.9	3875.6	3880.1	3902.9	3915.7
12.5°	3821.2	3818.9	3827.3	3852.3	3869.5
15°	3745.5	3745.5	3757.8	3791.7	3812.8
17.5°	3654.9	3661.0	3679.9	3713.8	3736.6
20°	3558.1	3564.8	3589.8	3627.6	3654.9
22.5°	3450.8	3459.7	3484.7	3530.9	3554.3
25°	3325.2	3341.8	3371.3	3417.5	3444.7
27.5°	3194.5	3213.4	3240.6	3297.9	3322.9
30°	3051.6	3064.4	3104.4	3156.7	3186.1
32.5°	2900.3	2913.1	2946.5	3009.9	3034.9
35°	2744.6	2757.4	2789.1	2845.8	2875.3
37.5°	2576.7	2587.3	2625.1	2669.0	2700.7
40°	2400.5	2414.9	2439.9	2492.8	2520.0
42.5°	2228.1	2234.2	2261.4	2314.3	2334.8
45°	2051.3	2053.5	2083.0	2124.7	2143.6
47.5°	1868.3	1872.8	1908.4	1933.4	1952.3
50°	1698.2	1700.4	1725.4	1748.8	1769.9
52.5°	1528.0	1528.0	1540.8	1565.8	1593.1
55°	1368.4	1366.2	1372.3	1395.7	1412.4
57.5°	1217.2	1215.0	1223.3	1237.8	1250.5
60°	1069.8	1065.4	1073.7	1082.6	1099.3
62.5°	939.7	943.6	933.0	945.8	958.6
65°	824.1	819.6	806.8	813.5	825.7
67.5°	725.1	719.0	697.8	701.7	716.7
70°	634.4	622.2	598.9	598.9	609.4
72.5°	552.7	539.9	510.5	512.7	517.1
75°	483.2	462.6	437.1	428.7	439.3
77.5°	407.6	390.9	367.5	361.4	365.9
80°	336.4	323.6	296.4	288.0	294.1
82.5°	266.9	256.3	224.6	218.5	220.8
85°	185.2	182.9	157.4	145.1	149.0
87.5°	99.0	100.6	81.7	73.4	77.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)