

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: P476108

Luminaire Tested: **22GR-LD5-90-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476108
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-90-A125-UNV-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9267.0 lumens
Efficiency: N/A
Efficacy: 133.7 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

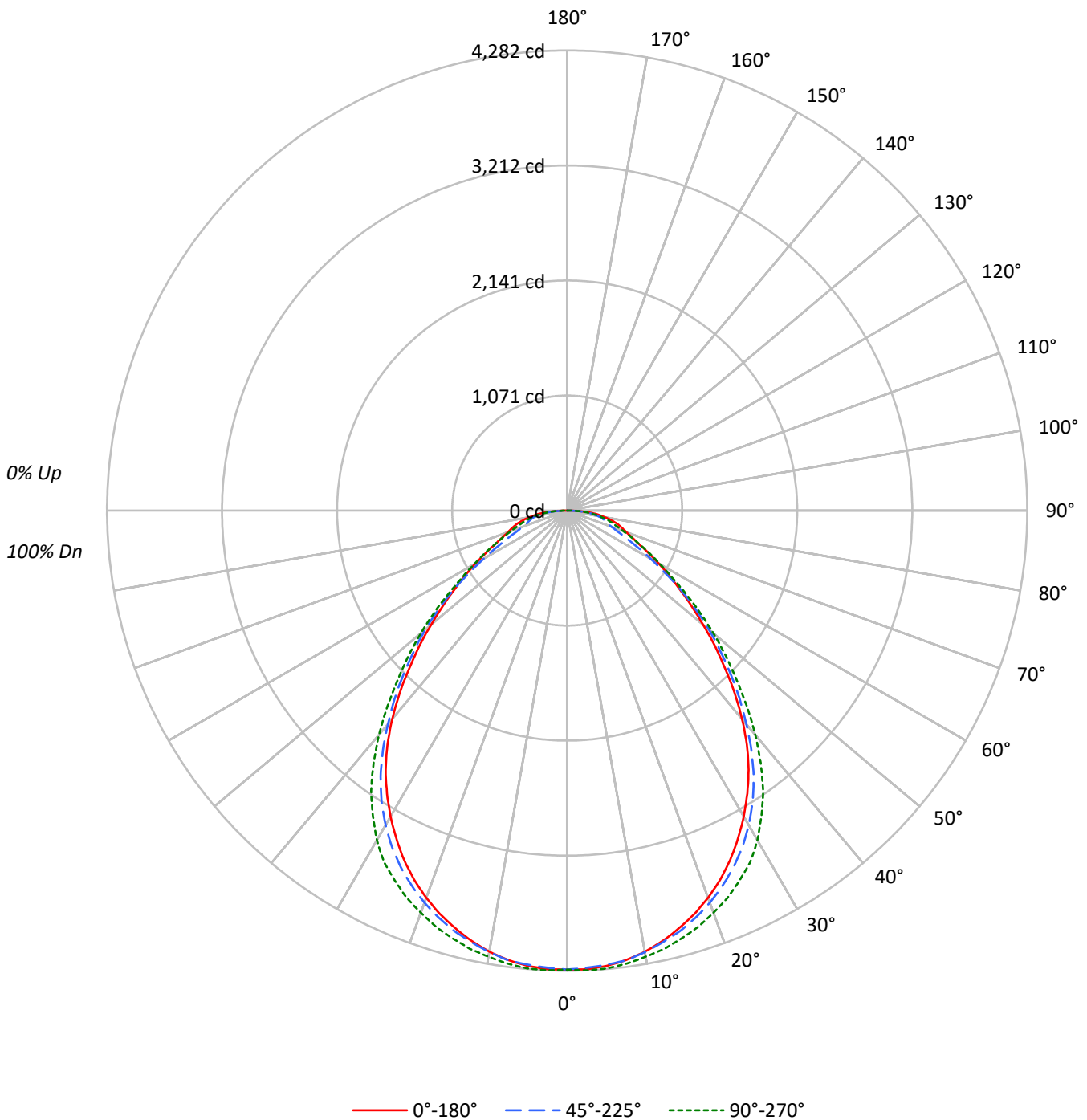
Input Watts (W): 69.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476108

CATALOG NUMBER: 22GR-LD5-90-A125-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476108

CATALOG NUMBER: 22GR-LD5-90-A125-UNV-L840-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	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°	11495	11495	11495
5°	11486	11457	11551
10°	11390	11401	11519
15°	11208	11287	11478
20°	10977	11119	11404
25°	10656	10874	11273
30°	10212	10500	11005
35°	9674	9944	10448
40°	8897	9115	9571
45°	7902	8189	8485
50°	6902	7218	7436
55°	6000	6083	6305
60°	5280	4837	5384
65°	4692	3866	4718
70°	4606	3432	4354
75°	5034	3774	4446
80°	5528	4483	4757
85°	6601	5206	5329



TEST NUMBER: P476108

CATALOG NUMBER: 22GR-LD5-90-A125-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.7	4.4
10°-20°	1144.9	12.4
20°-30°	1690.1	18.2
30°-40°	1891.2	20.4
40°-50°	1660.8	17.9
50°-60°	1175.1	12.7
60°-70°	684.1	7.4
70°-80°	426.3	4.6
80°-90°	190.7	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°	3238.7	34.9
0°-40°	5130.0	55.4
0°-60°	7965.9	86.0
0°-90°	9267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4272	4272	4272	4272	4272	
5°	4252	4241	4241	4263	4276	403
15°	4023	4032	4052	4094	4120	1134
25°	3589	3604	3662	3748	3797	1648
35°	2945	2958	3027	3118	3180	1832
45°	2076	2100	2152	2204	2230	1606
55°	1279	1305	1297	1320	1344	1156
65°	737	679	607	661	741	747
75°	484	417	363	372	428	506
85°	214	222	169	164	173	217
90°	0	0	0	0	0	



TEST NUMBER: P476108

CATALOG NUMBER: 22GR-LD5-90-A125-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4271.6	4271.6	4271.6	4271.6	4271.6
2.5°	4271.6	4263.1	4258.5	4273.9	4282.5
5°	4252.2	4241.3	4241.3	4263.1	4276.2
7.5°	4217.9	4207.0	4219.6	4239.0	4252.2
10°	4168.2	4163.6	4172.2	4198.5	4215.6
12.5°	4103.0	4105.3	4113.8	4155.0	4176.7
15°	4023.0	4031.5	4051.5	4094.4	4120.1
17.5°	3936.6	3943.5	3973.2	4023.0	4060.1
20°	3833.2	3845.7	3882.9	3945.2	3982.4
22.5°	3718.2	3733.7	3778.8	3854.9	3900.0
25°	3589.0	3603.9	3662.2	3748.5	3796.6
27.5°	3442.1	3465.6	3530.7	3625.6	3690.2
30°	3286.6	3306.1	3379.2	3487.3	3541.6
32.5°	3120.3	3143.7	3212.9	3316.3	3364.4
35°	2944.8	2957.9	3027.1	3118.0	3180.3
37.5°	2746.4	2752.7	2817.3	2901.9	2957.9
40°	2532.6	2536.6	2594.9	2674.9	2724.7
42.5°	2309.6	2311.9	2374.8	2434.8	2478.3
45°	2076.4	2100.4	2151.8	2203.8	2229.6
47.5°	1866.6	1884.3	1931.7	1976.9	2000.9
50°	1648.7	1691.6	1724.2	1748.2	1776.2
52.5°	1460.7	1497.2	1505.8	1533.8	1557.8
55°	1278.9	1305.2	1296.6	1320.0	1344.0
57.5°	1125.6	1112.5	1084.5	1125.6	1155.9
60°	981.0	946.1	898.7	955.3	1000.4
62.5°	851.2	795.2	736.9	792.9	868.4
65°	736.9	678.6	607.1	661.4	740.9
67.5°	650.6	590.0	505.4	559.7	639.7
70°	585.4	523.1	436.2	481.9	553.4
72.5°	534.0	466.5	391.0	421.3	481.9
75°	484.2	416.8	363.0	371.6	427.6
77.5°	425.9	376.2	332.7	328.1	371.6
80°	356.7	341.3	289.3	283.0	307.0
82.5°	293.8	287.6	237.8	231.0	240.1
85°	213.8	222.4	168.6	164.1	172.6
87.5°	112.6	122.9	88.6	93.2	94.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)