

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: P475816

Luminaire Tested: **24GR-LD5-100-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475816
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-100-A125-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10286.2 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

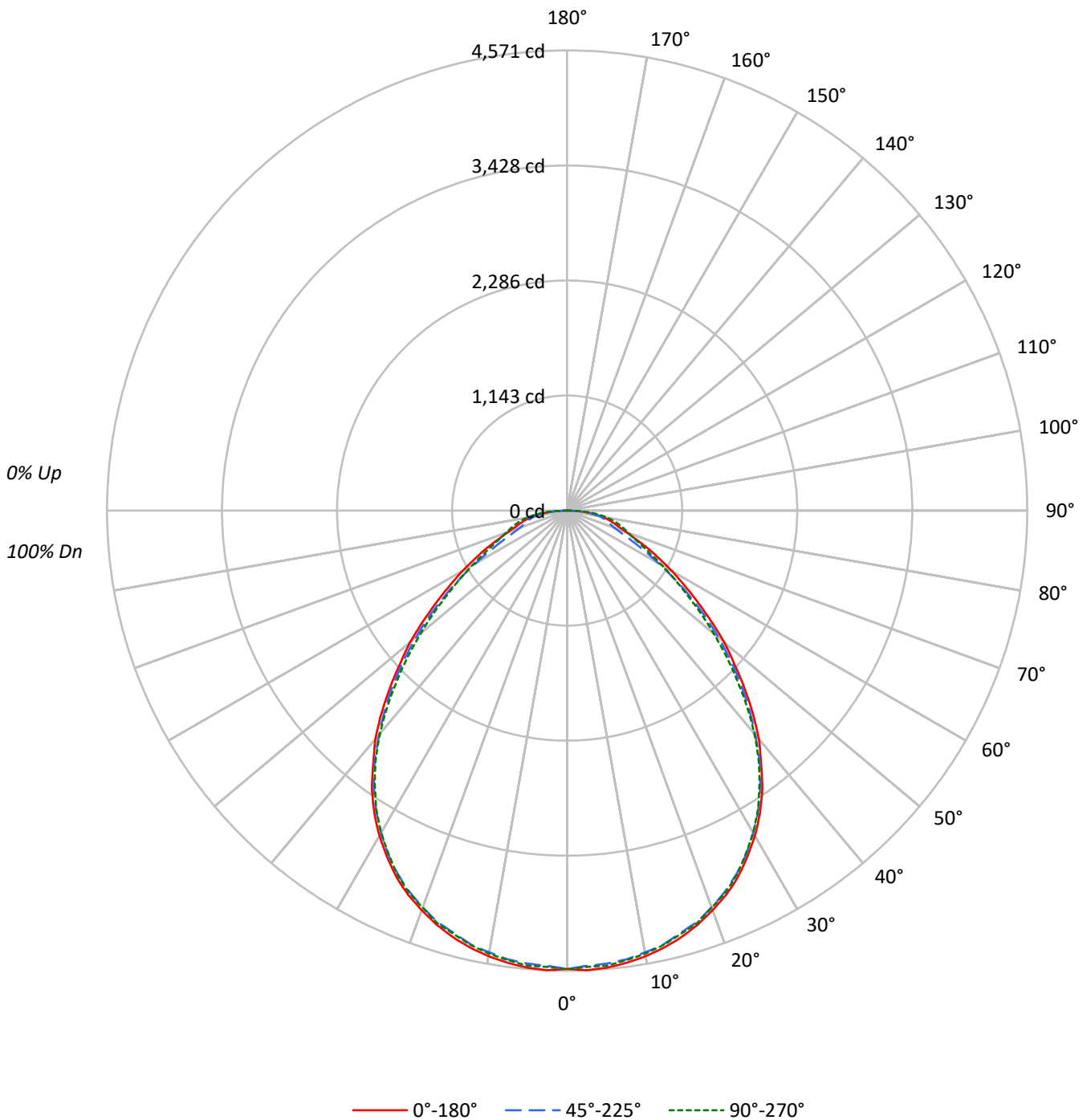
Input Watts (W): 67.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475816

CATALOG NUMBER: 24GR-LD5-100-A125-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475816

CATALOG NUMBER: 24GR-LD5-100-A125-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	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6126	6126	6126
5°	6155	6101	6127
10°	6141	6088	6105
15°	6111	6051	6065
20°	6048	6006	6009
25°	5961	5913	5922
30°	5796	5744	5741
35°	5553	5497	5471
40°	5203	5101	5080
45°	4736	4641	4552
50°	4264	4113	3979
55°	3700	3499	3394
60°	3231	2820	2919
65°	2796	2242	2595
70°	2466	1965	2534
75°	2476	2137	2772
80°	2713	2539	3138
85°	2859	2765	3597



TEST NUMBER: P475816

CATALOG NUMBER: 24GR-LD5-100-A125-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.3	4.2
10°-20°	1229.5	12.0
20°-30°	1833.1	17.8
30°-40°	2083.8	20.3
40°-50°	1878.0	18.3
50°-60°	1352.7	13.2
60°-70°	786.8	7.6
70°-80°	481.4	4.7
80°-90°	210.7	2.0
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°	3492.8	34.0
0°-40°	5576.6	54.2
0°-60°	8807.3	85.6
0°-90°	10286.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10286.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4553	4553	4553	4553	4553	
5°	4557	4525	4517	4526	4536	433
15°	4387	4362	4344	4351	4354	1237
25°	4015	3991	3983	3977	3989	1844
35°	3380	3357	3347	3328	3331	2103
45°	2489	2460	2439	2402	2392	1920
55°	1577	1540	1492	1476	1447	1422
65°	878	790	704	759	815	878
75°	476	432	411	468	533	507
85°	185	183	179	243	233	196
90°	0	0	0	0	0	



TEST NUMBER: P475816

CATALOG NUMBER: 24GR-LD5-100-A125-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4552.7	4552.7	4552.7	4552.7	4552.7
2.5°	4571.0	4546.6	4526.3	4527.3	4537.5
5°	4556.8	4525.2	4517.1	4526.3	4536.4
7.5°	4531.4	4501.8	4496.8	4491.7	4503.9
10°	4494.7	4474.4	4456.1	4461.1	4468.3
12.5°	4445.9	4428.6	4415.3	4405.2	4420.4
15°	4386.9	4362.4	4344.1	4351.2	4354.3
17.5°	4312.6	4289.2	4284.1	4280.0	4295.3
20°	4224.0	4209.8	4194.5	4198.6	4196.6
22.5°	4130.4	4109.1	4096.8	4090.7	4107.0
25°	4015.4	3991.0	3982.9	3976.8	3989.0
27.5°	3875.0	3861.8	3850.6	3842.4	3843.5
30°	3730.5	3717.3	3696.9	3690.8	3694.9
32.5°	3564.6	3549.4	3531.1	3512.7	3526.0
35°	3380.5	3357.0	3346.9	3327.5	3330.6
37.5°	3162.7	3152.5	3143.4	3117.9	3126.1
40°	2962.2	2934.7	2904.2	2889.0	2892.0
42.5°	2730.2	2701.7	2677.3	2655.9	2645.7
45°	2489.0	2460.5	2439.2	2401.5	2392.4
47.5°	2248.9	2222.4	2199.0	2169.5	2143.1
50°	2037.2	1988.4	1965.0	1934.4	1900.9
52.5°	1799.1	1770.6	1724.8	1699.4	1668.9
55°	1577.3	1539.6	1491.8	1476.5	1447.0
57.5°	1377.8	1337.1	1266.9	1260.8	1259.8
60°	1200.8	1145.8	1048.1	1055.2	1084.8
62.5°	1028.8	950.4	861.9	893.4	937.2
65°	878.2	789.7	704.2	759.1	815.1
67.5°	733.7	654.3	582.1	655.3	714.4
70°	626.8	560.7	499.6	578.0	644.1
72.5°	537.3	486.4	446.7	518.0	589.2
75°	476.2	431.5	411.1	468.1	533.2
77.5°	419.2	379.6	373.5	424.3	472.2
80°	350.1	322.6	327.7	379.6	405.0
82.5°	266.6	258.5	259.5	324.6	329.7
85°	185.2	183.2	179.1	243.2	233.0
87.5°	93.6	95.7	94.6	138.4	124.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)