

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: P475799

Luminaire Tested: **24GR-LD5-85-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475799
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A125-UNV-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8736.4 lumens
Efficiency: N/A
Efficacy: 147.6 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

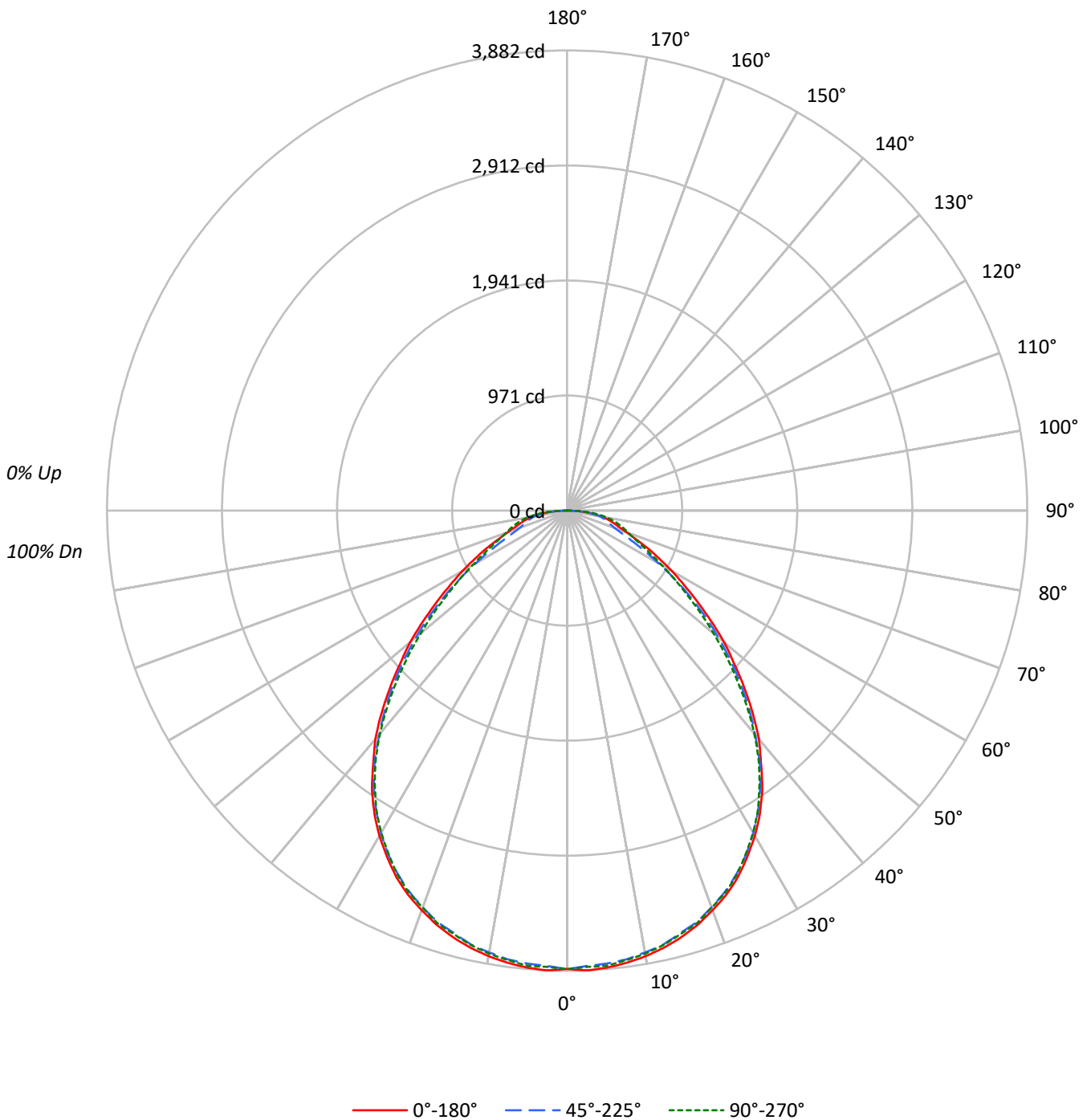
Input Watts (W): 59.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475799

CATALOG NUMBER: 24GR-LD5-85-A125-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475799

CATALOG NUMBER: 24GR-LD5-85-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	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°	5203	5203	5203
5°	5227	5182	5204
10°	5216	5171	5185
15°	5190	5139	5151
20°	5137	5101	5104
25°	5063	5022	5030
30°	4923	4878	4876
35°	4716	4669	4646
40°	4419	4332	4314
45°	4023	3942	3866
50°	3622	3493	3379
55°	3142	2972	2883
60°	2744	2396	2479
65°	2375	1904	2204
70°	2094	1670	2152
75°	2103	1815	2354
80°	2304	2156	2665
85°	2428	2348	3055



TEST NUMBER: P475799

CATALOG NUMBER: 24GR-LD5-85-A125-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.4	4.2
10°-20°	1044.2	12.0
20°-30°	1556.9	17.8
30°-40°	1769.8	20.3
40°-50°	1595.0	18.3
50°-60°	1148.9	13.2
60°-70°	668.3	7.6
70°-80°	408.9	4.7
80°-90°	179.0	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°	2966.5	34.0
0°-40°	4736.4	54.2
0°-60°	7480.2	85.6
0°-90°	8736.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8736.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3867	3867	3867	3867	3867	
5°	3870	3843	3836	3844	3853	368
15°	3726	3705	3690	3696	3698	1050
25°	3410	3390	3383	3378	3388	1567
35°	2871	2851	2843	2826	2829	1786
45°	2114	2090	2072	2040	2032	1631
55°	1340	1308	1267	1254	1229	1208
65°	746	671	598	645	692	746
75°	404	366	349	398	453	431
85°	157	156	152	207	198	167
90°	0	0	0	0	0	



TEST NUMBER: P475799

CATALOG NUMBER: 24GR-LD5-85-A125-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3866.7	3866.7	3866.7	3866.7	3866.7
2.5°	3882.3	3861.6	3844.3	3845.1	3853.8
5°	3870.2	3843.4	3836.5	3844.3	3852.9
7.5°	3848.6	3823.5	3819.2	3814.9	3825.3
10°	3817.5	3800.2	3784.6	3789.0	3795.0
12.5°	3776.0	3761.3	3750.1	3741.4	3754.4
15°	3725.9	3705.1	3689.6	3695.6	3698.2
17.5°	3662.8	3642.9	3638.6	3635.1	3648.1
20°	3587.6	3575.5	3562.5	3566.0	3564.3
22.5°	3508.1	3489.9	3479.6	3474.4	3488.2
25°	3410.4	3389.7	3382.8	3377.6	3387.9
27.5°	3291.1	3279.9	3270.4	3263.5	3264.3
30°	3168.4	3157.2	3139.9	3134.7	3138.2
32.5°	3027.5	3014.6	2999.0	2983.5	2994.7
35°	2871.1	2851.2	2842.6	2826.2	2828.8
37.5°	2686.2	2677.5	2669.7	2648.1	2655.0
40°	2515.9	2492.6	2466.6	2453.7	2456.3
42.5°	2318.8	2294.6	2273.9	2255.7	2247.1
45°	2114.0	2089.8	2071.7	2039.7	2031.9
47.5°	1910.0	1887.6	1867.7	1842.6	1820.2
50°	1730.3	1688.8	1668.9	1643.0	1614.5
52.5°	1528.0	1503.8	1464.9	1443.3	1417.4
55°	1339.6	1307.6	1267.0	1254.1	1229.0
57.5°	1170.2	1135.7	1076.0	1070.8	1070.0
60°	1019.8	973.2	890.2	896.2	921.3
62.5°	873.8	807.2	732.0	758.8	796.0
65°	745.9	670.7	598.1	644.7	692.3
67.5°	623.1	555.7	494.4	556.6	606.7
70°	532.4	476.2	424.4	490.9	547.1
72.5°	456.3	413.1	379.4	439.9	500.4
75°	404.5	366.5	349.2	397.6	452.9
77.5°	356.1	322.4	317.2	360.4	401.0
80°	297.3	274.0	278.3	322.4	344.0
82.5°	226.4	219.5	220.4	275.7	280.0
85°	157.3	155.6	152.1	206.6	197.9
87.5°	79.5	81.2	80.4	117.5	105.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)