

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: P475789

Luminaire Tested: **24GR-LD5-150-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475789
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-A125-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15142.8 lumens
Efficiency: N/A
Efficacy: 146.4 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

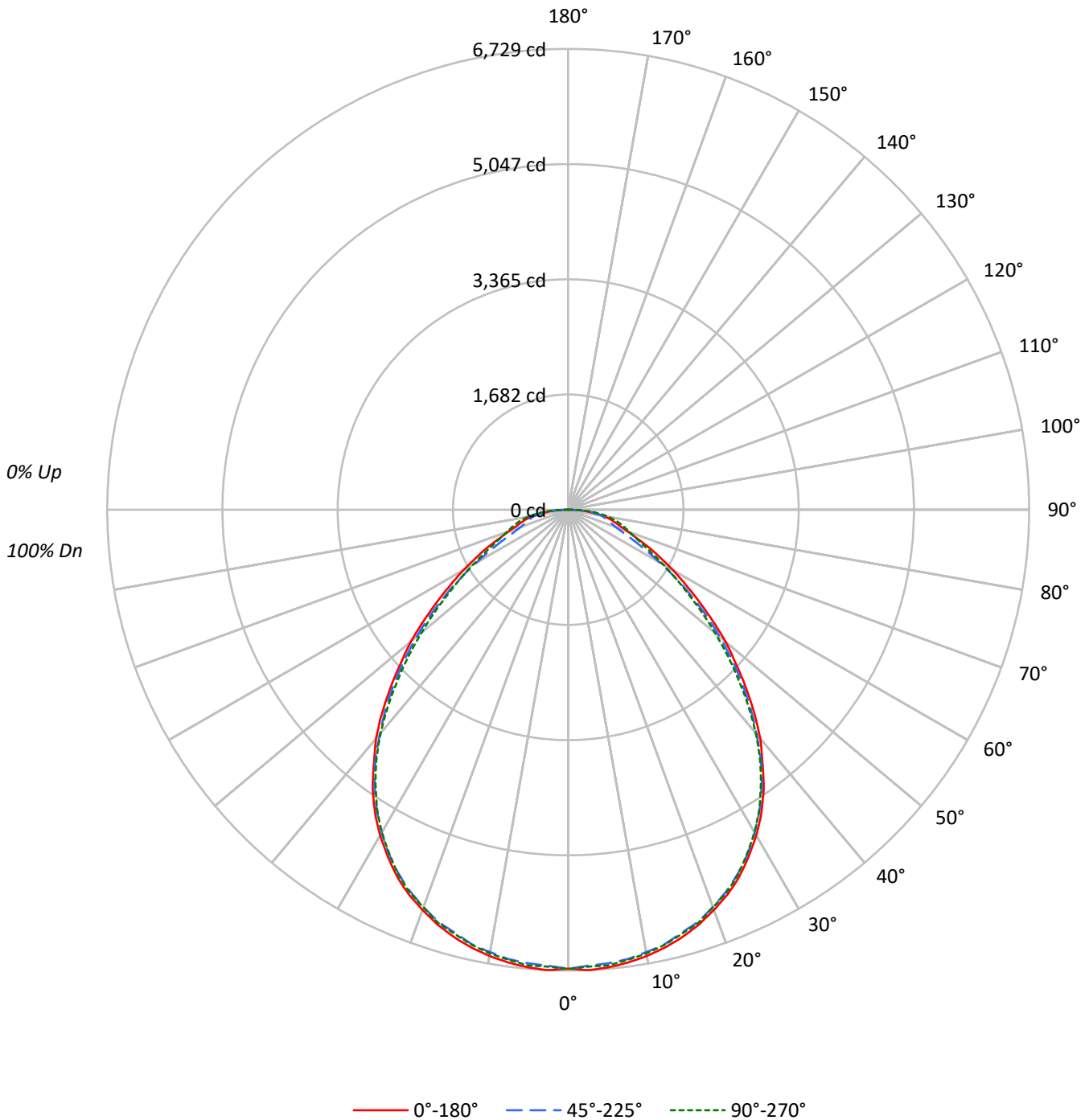
Input Watts (W): 103.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475789

CATALOG NUMBER: 24GR-LD5-150-A125-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475789

CATALOG NUMBER: 24GR-LD5-150-A125-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	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°	9018	9018	9018
5°	9060	8982	9020
10°	9040	8963	8987
15°	8996	8908	8929
20°	8904	8842	8846
25°	8776	8705	8718
30°	8532	8456	8451
35°	8174	8093	8054
40°	7659	7509	7478
45°	6972	6833	6702
50°	6278	6055	5858
55°	5447	5152	4997
60°	4757	4152	4297
65°	4116	3301	3820
70°	3630	2893	3731
75°	3645	3146	4081
80°	3993	3738	4620
85°	4208	4071	5297



TEST NUMBER: P475789

CATALOG NUMBER: 24GR-LD5-150-A125-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.4	4.2
10°-20°	1810.0	12.0
20°-30°	2698.5	17.8
30°-40°	3067.7	20.3
40°-50°	2764.7	18.3
50°-60°	1991.4	13.2
60°-70°	1158.3	7.6
70°-80°	708.7	4.7
80°-90°	310.2	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°	5141.9	34.0
0°-40°	8209.6	54.2
0°-60°	12965.6	85.6
0°-90°	15142.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15142.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6702	6702	6702	6702	6702	
5°	6708	6662	6650	6663	6678	637
15°	6458	6422	6395	6406	6410	1820
25°	5911	5875	5863	5854	5872	2715
35°	4976	4942	4927	4899	4903	3097
45°	3664	3622	3591	3535	3522	2826
55°	2322	2267	2196	2174	2130	2094
65°	1293	1162	1037	1118	1200	1293
75°	701	635	605	689	785	747
85°	273	270	264	358	343	289
90°	0	0	0	0	0	



TEST NUMBER: P475789

CATALOG NUMBER: 24GR-LD5-150-A125-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6702.3	6702.3	6702.3	6702.3	6702.3
2.5°	6729.3	6693.3	6663.3	6664.8	6679.8
5°	6708.3	6661.8	6649.9	6663.3	6678.3
7.5°	6670.8	6627.4	6619.9	6612.4	6630.4
10°	6616.9	6586.9	6560.0	6567.5	6578.0
12.5°	6545.0	6519.5	6500.1	6485.1	6507.5
15°	6458.1	6422.2	6395.2	6405.7	6410.2
17.5°	6348.8	6314.3	6306.8	6300.8	6323.3
20°	6218.4	6197.4	6175.0	6181.0	6178.0
22.5°	6080.6	6049.1	6031.2	6022.2	6046.1
25°	5911.3	5875.4	5863.4	5854.4	5872.4
27.5°	5704.6	5685.1	5668.6	5656.7	5658.1
30°	5491.9	5472.4	5442.4	5433.4	5439.4
32.5°	5247.7	5225.2	5198.2	5171.3	5190.8
35°	4976.5	4942.1	4927.1	4898.6	4903.1
37.5°	4656.0	4641.0	4627.5	4590.0	4602.0
40°	4360.8	4320.4	4275.4	4253.0	4257.5
42.5°	4019.3	3977.3	3941.4	3909.9	3894.9
45°	3664.2	3622.3	3590.8	3535.4	3521.9
47.5°	3310.7	3271.7	3237.3	3193.9	3154.9
50°	2999.1	2927.2	2892.7	2847.8	2798.4
52.5°	2648.6	2606.6	2539.2	2501.7	2456.8
55°	2322.0	2266.6	2196.1	2173.7	2130.2
57.5°	2028.4	1968.4	1865.1	1856.1	1854.6
60°	1767.7	1686.8	1543.0	1553.5	1596.9
62.5°	1514.5	1399.2	1268.9	1315.3	1379.7
65°	1292.8	1162.5	1036.7	1117.5	1199.9
67.5°	1080.1	963.2	856.9	964.7	1051.6
70°	922.8	825.4	735.5	850.9	948.3
72.5°	791.0	716.1	657.6	762.5	867.4
75°	701.1	635.2	605.2	689.1	785.0
77.5°	617.2	558.8	549.8	624.7	695.1
80°	515.3	474.9	482.4	558.8	596.2
82.5°	392.5	380.5	382.0	477.9	485.4
85°	272.6	269.6	263.7	358.0	343.1
87.5°	137.8	140.8	139.3	203.7	182.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)