

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: P476215

Luminaire Tested: **14GR-LD5-24-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476215
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-F125-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

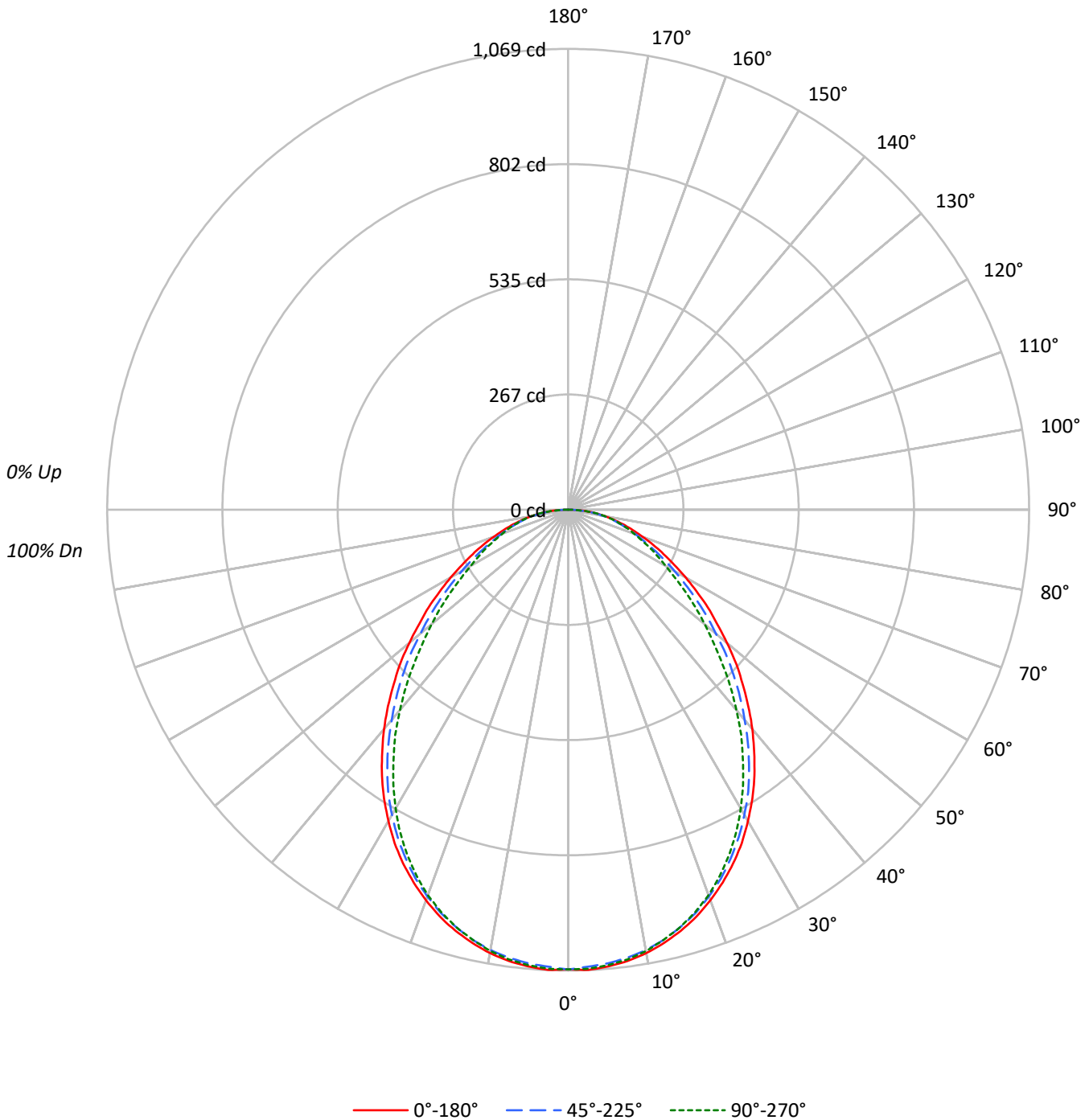
Lumens per Lamp: N/A
Luminaire Lumens: 2394.1 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 18.5
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: P476215

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476215

CATALOG NUMBER: 14GR-LD5-24-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2870	2870	2870
5°	2873	2854	2864
10°	2854	2834	2840
15°	2817	2794	2794
20°	2761	2734	2725
25°	2688	2649	2621
30°	2590	2539	2486
35°	2474	2402	2319
40°	2334	2236	2132
45°	2176	2063	1924
50°	2011	1871	1731
55°	1855	1696	1557
60°	1692	1533	1406
65°	1556	1391	1329
70°	1444	1301	1275
75°	1378	1264	1287
80°	1350	1274	1340
85°	1386	1250	1337



TEST NUMBER: P476215

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	4.2
10°-20°	283.2	11.8
20°-30°	410.8	17.2
30°-40°	456.1	19.1
40°-50°	417.3	17.4
50°-60°	325.1	13.6
60°-70°	222.1	9.3
70°-80°	132.7	5.5
80°-90°	46.1	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°	794.6	33.2
0°-40°	1250.8	52.2
0°-60°	1993.2	83.3
0°-90°	2394.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1064	1061	1056	1062	1060	101
15°	1011	1008	1003	1007	1003	285
25°	905	902	892	890	883	416
35°	753	746	731	716	706	470
45°	572	564	542	517	506	442
55°	395	383	362	340	332	353
65°	244	235	218	209	209	243
75°	132	127	122	124	124	141
85°	45	43	40	44	43	48
90°	0	0	0	0	0	



TEST NUMBER: P476215

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1068.6	1065.8	1060.9	1066.4	1065.8
5°	1063.6	1061.4	1056.5	1062.0	1060.3
7.5°	1056.0	1053.8	1048.3	1054.3	1052.1
10°	1044.5	1041.7	1037.3	1041.7	1039.5
12.5°	1029.1	1026.4	1022.0	1025.8	1022.0
15°	1011.1	1008.3	1002.8	1006.7	1002.8
17.5°	989.7	985.9	981.5	982.0	978.7
20°	964.0	960.1	954.6	954.6	951.4
22.5°	936.0	932.2	925.6	923.4	919.0
25°	905.3	901.5	892.2	889.5	882.9
27.5°	871.9	865.9	856.6	850.6	844.0
30°	833.6	828.7	817.2	808.4	800.2
32.5°	794.7	789.8	776.6	763.5	754.7
35°	753.1	746.5	731.2	715.8	706.0
37.5°	708.2	702.7	685.2	666.6	658.9
40°	664.4	657.2	636.4	617.3	606.9
42.5°	618.4	610.7	589.9	568.0	556.5
45°	571.8	564.1	542.2	517.0	505.5
47.5°	528.5	518.7	495.7	470.5	456.8
50°	480.3	472.1	446.9	422.8	413.5
52.5°	435.4	427.8	404.2	380.7	371.9
55°	395.4	383.4	361.5	340.1	331.9
57.5°	352.7	342.9	322.0	301.8	293.6
60°	314.4	306.7	284.8	267.3	261.3
62.5°	276.6	270.6	250.3	237.2	233.3
65°	244.3	235.0	218.5	208.7	208.7
67.5°	213.6	204.3	190.1	186.2	182.9
70°	183.5	176.4	165.4	162.1	162.1
72.5°	156.6	150.6	142.9	141.9	144.0
75°	132.5	127.1	121.6	123.8	123.8
77.5°	108.4	104.6	102.4	103.5	105.7
80°	87.1	84.3	82.2	84.9	86.5
82.5°	66.8	64.1	62.4	66.3	65.7
85°	44.9	42.7	40.5	44.4	43.3
87.5°	22.5	21.4	17.5	19.7	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)