

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: P476379

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476379
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-FGW080-UNV-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2819.6 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

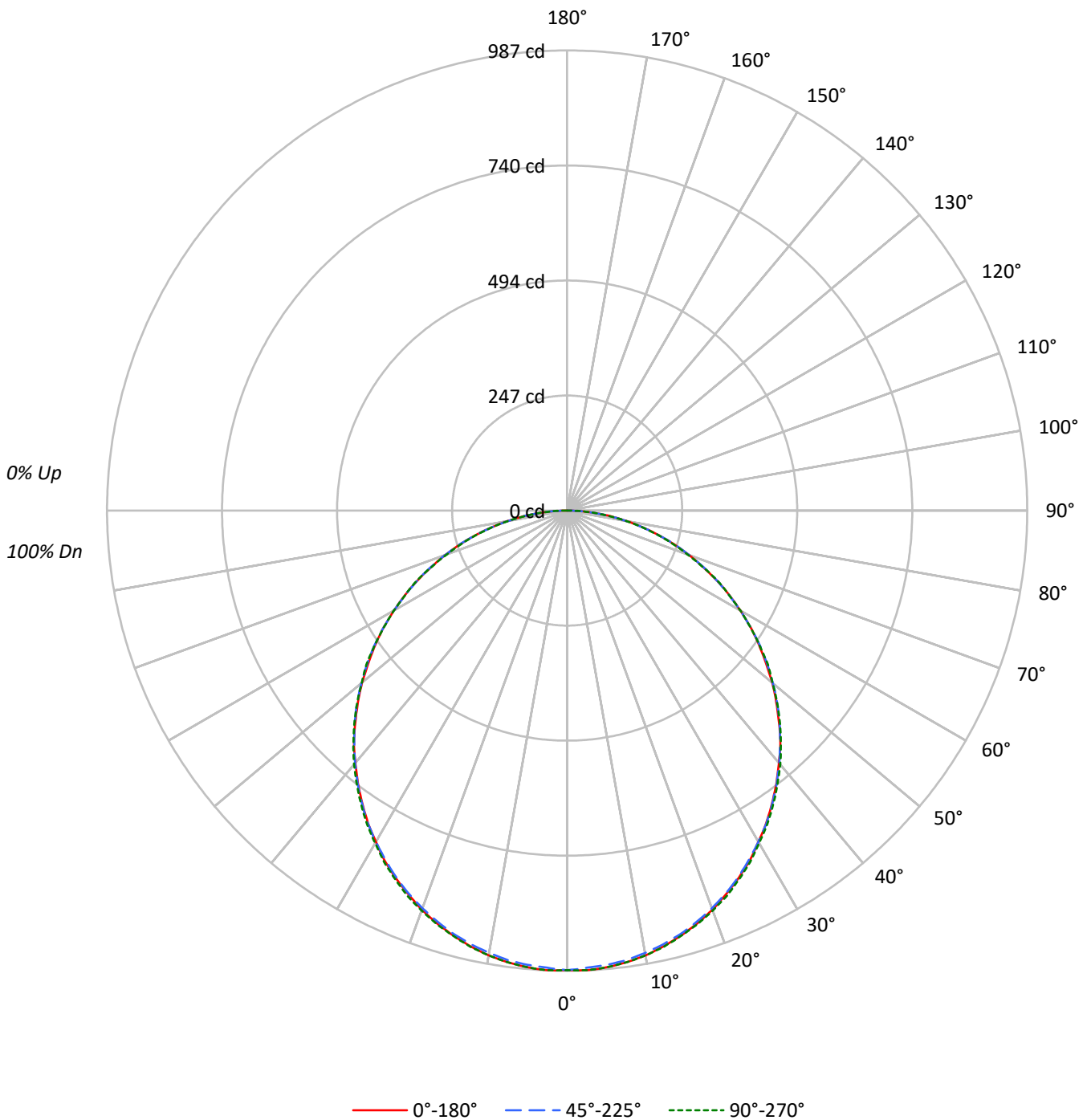
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476379

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476379

CATALOG NUMBER: 14GR-LD5-32-FGW080-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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2653	2653	2653
5°	2656	2642	2656
10°	2648	2632	2648
15°	2629	2619	2631
20°	2609	2599	2615
25°	2583	2577	2591
30°	2549	2549	2559
35°	2517	2520	2531
40°	2482	2485	2498
45°	2446	2453	2456
50°	2404	2411	2408
55°	2355	2368	2364
60°	2309	2309	2309
65°	2256	2256	2266
70°	2184	2184	2163
75°	2108	2098	2089
80°	2013	1999	1985
85°	1890	1868	1812



TEST NUMBER: P476379

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.3
10°-20°	266.1	9.4
20°-30°	401.0	14.2
30°-40°	480.6	17.0
40°-50°	497.0	17.6
50°-60°	450.6	16.0
60°-70°	350.2	12.4
70°-80°	213.8	7.6
80°-90°	67.0	2.4
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°	760.4	27.0
0°-40°	1240.9	44.0
0°-60°	2188.5	77.6
0°-90°	2819.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2819.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	983	982	978	982	983	93
15°	944	944	940	944	944	266
25°	870	870	868	874	873	401
35°	766	767	767	770	770	479
45°	643	644	644	645	645	496
55°	502	504	505	505	504	449
65°	354	354	354	352	356	350
75°	203	203	202	201	201	214
85°	61	60	60	59	59	68
90°	0	0	0	0	0	



TEST NUMBER: P476379

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.0	986.0	986.0	986.0	986.0
2.5°	986.9	986.0	981.5	986.0	986.9
5°	983.3	982.4	978.0	982.4	983.3
7.5°	977.1	977.1	972.6	977.1	977.1
10°	968.9	968.0	963.4	968.0	968.9
12.5°	957.3	957.3	952.7	957.3	958.2
15°	943.6	943.6	940.1	944.5	944.5
17.5°	928.3	929.2	924.8	930.1	930.1
20°	911.1	910.2	907.7	912.1	913.0
22.5°	890.6	891.5	888.8	894.0	894.9
25°	869.8	869.8	868.0	873.5	872.6
27.5°	847.2	847.2	844.5	849.0	850.0
30°	820.3	821.2	820.3	824.6	823.7
32.5°	794.9	795.8	795.8	797.7	798.6
35°	766.2	767.1	767.1	770.5	770.5
37.5°	737.2	737.2	738.1	740.8	740.8
40°	706.6	707.5	707.5	710.2	711.1
42.5°	676.9	675.1	676.0	678.7	678.7
45°	642.7	643.6	644.5	645.4	645.4
47.5°	608.4	610.2	611.2	612.1	611.2
50°	574.2	576.0	576.0	575.1	575.1
52.5°	537.2	541.8	540.8	540.8	542.7
55°	502.0	503.9	504.8	504.8	503.9
57.5°	466.9	468.7	466.9	467.8	466.0
60°	429.0	429.9	429.0	429.0	429.0
62.5°	392.0	392.9	391.1	391.1	391.1
65°	354.3	354.3	354.3	352.5	355.9
67.5°	314.6	316.4	316.4	317.3	313.7
70°	277.6	278.5	277.6	276.7	274.9
72.5°	240.6	241.5	242.5	238.8	237.9
75°	202.7	202.7	201.8	200.9	200.9
77.5°	165.7	165.7	165.7	164.1	164.1
80°	129.9	130.6	129.0	129.0	128.1
82.5°	94.7	94.7	94.7	93.8	92.0
85°	61.2	59.6	60.5	58.7	58.7
87.5°	27.9	27.9	27.9	26.0	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)