

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: P476374

Luminaire Tested: **14GR-LD5-50-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476374
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-50-FGW080-UNV-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4387.1 lumens
Efficiency: N/A
Efficacy: 107.0 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

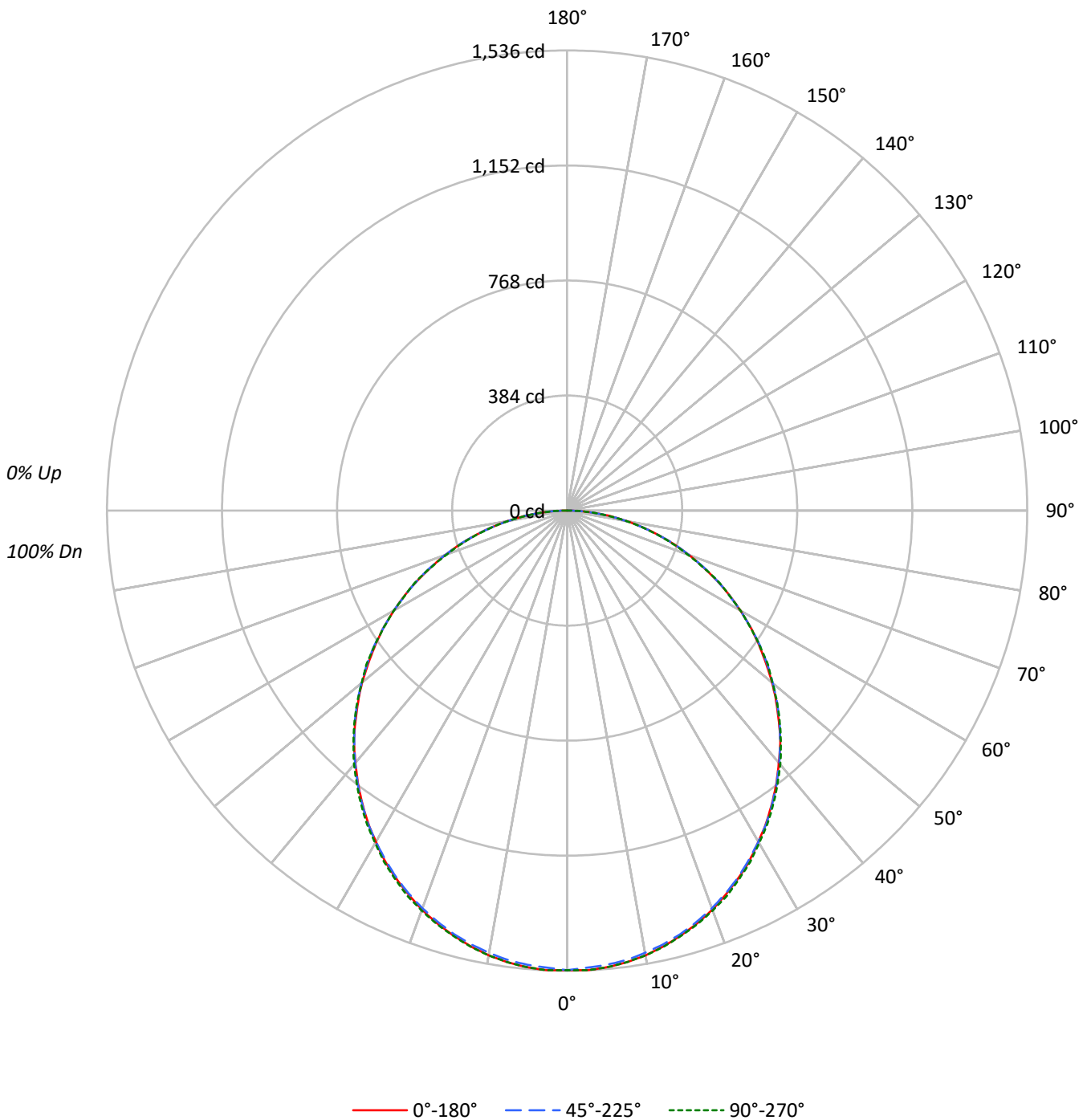
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476374

CATALOG NUMBER: 14GR-LD5-50-FGW080-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476374

CATALOG NUMBER: 14GR-LD5-50-FGW080-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	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°	4128	4128	4128
5°	4133	4111	4133
10°	4120	4096	4120
15°	4090	4075	4094
20°	4060	4045	4068
25°	4018	4010	4031
30°	3966	3966	3983
35°	3916	3921	3938
40°	3862	3867	3887
45°	3806	3816	3822
50°	3740	3752	3746
55°	3665	3685	3678
60°	3592	3592	3592
65°	3510	3510	3526
70°	3399	3399	3365
75°	3279	3265	3250
80°	3132	3110	3088
85°	2939	2905	2819



TEST NUMBER: P476374

CATALOG NUMBER: 14GR-LD5-50-FGW080-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	3.3
10°-20°	414.0	9.4
20°-30°	624.0	14.2
30°-40°	747.7	17.0
40°-50°	773.3	17.6
50°-60°	701.1	16.0
60°-70°	544.9	12.4
70°-80°	332.8	7.6
80°-90°	104.2	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°	1183.1	27.0
0°-40°	1930.9	44.0
0°-60°	3405.3	77.6
0°-90°	4387.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4387.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1530	1528	1522	1528	1530	145
15°	1468	1468	1463	1470	1470	414
25°	1353	1353	1351	1359	1358	623
35°	1192	1194	1194	1199	1199	746
45°	1000	1001	1003	1004	1004	772
55°	781	784	785	785	784	699
65°	551	551	551	548	554	545
75°	315	315	314	313	313	334
85°	95	93	94	91	91	105
90°	0	0	0	0	0	



TEST NUMBER: P476374

CATALOG NUMBER: 14GR-LD5-50-FGW080-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1534.2	1534.2	1534.2	1534.2	1534.2
2.5°	1535.6	1534.2	1527.1	1534.2	1535.6
5°	1530.0	1528.5	1521.8	1528.5	1530.0
7.5°	1520.4	1520.4	1513.3	1520.4	1520.4
10°	1507.6	1506.2	1499.1	1506.2	1507.6
12.5°	1489.5	1489.5	1482.4	1489.5	1490.9
15°	1468.2	1468.2	1462.8	1469.6	1469.6
17.5°	1444.4	1445.8	1439.0	1447.2	1447.2
20°	1417.7	1416.3	1412.4	1419.1	1420.6
22.5°	1385.7	1387.2	1382.9	1391.1	1392.5
25°	1353.4	1353.4	1350.6	1359.1	1357.7
27.5°	1318.2	1318.2	1314.0	1321.1	1322.5
30°	1276.3	1277.8	1276.3	1283.1	1281.7
32.5°	1236.9	1238.3	1238.3	1241.2	1242.6
35°	1192.1	1193.6	1193.6	1198.9	1198.9
37.5°	1147.0	1147.0	1148.4	1152.7	1152.7
40°	1099.4	1100.8	1100.8	1105.1	1106.5
42.5°	1053.2	1050.4	1051.8	1056.1	1056.1
45°	1000.0	1001.4	1002.8	1004.2	1004.2
47.5°	946.7	949.5	950.9	952.4	950.9
50°	893.4	896.2	896.2	894.8	894.8
52.5°	835.8	843.0	841.5	841.5	844.4
55°	781.1	784.0	785.4	785.4	784.0
57.5°	726.4	729.3	726.4	727.9	725.0
60°	667.5	668.9	667.5	667.5	667.5
62.5°	609.9	611.3	608.5	608.5	608.5
65°	551.3	551.3	551.3	548.5	553.8
67.5°	489.5	492.3	492.3	493.8	488.1
70°	432.0	433.4	432.0	430.5	427.7
72.5°	374.4	375.8	377.3	371.6	370.1
75°	315.4	315.4	314.0	312.6	312.6
77.5°	257.9	257.9	257.9	255.4	255.4
80°	202.1	203.2	200.7	200.7	199.3
82.5°	147.4	147.4	147.4	146.0	143.2
85°	95.2	92.7	94.1	91.3	91.3
87.5°	43.3	43.3	43.3	40.5	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)