

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: P476356

Luminaire Tested: **14GR-LD5-50-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476356
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-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4154.6 lumens
Efficiency: N/A
Efficacy: 101.3 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

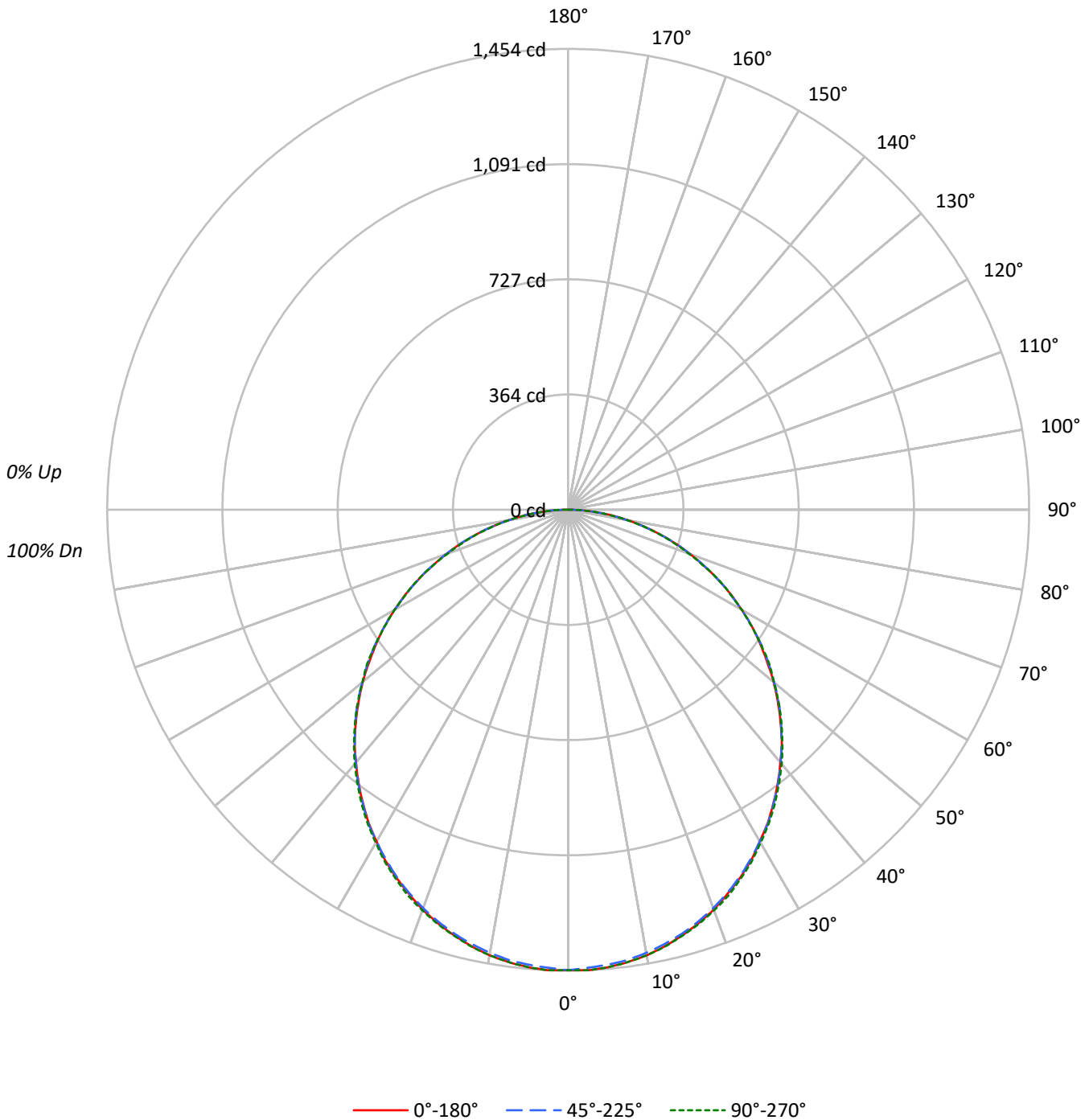
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476356

CATALOG NUMBER: 14GR-LD5-50-FGW080-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476356

CATALOG NUMBER: 14GR-LD5-50-FGW080-UNV-L830-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°	3910	3910	3910
5°	3914	3893	3914
10°	3901	3879	3901
15°	3873	3859	3877
20°	3845	3830	3853
25°	3806	3798	3817
30°	3756	3756	3771
35°	3709	3713	3730
40°	3658	3662	3681
45°	3604	3614	3619
50°	3542	3553	3548
55°	3470	3490	3483
60°	3402	3402	3402
65°	3324	3324	3340
70°	3219	3219	3186
75°	3106	3092	3078
80°	2966	2946	2924
85°	2785	2751	2671



TEST NUMBER: P476356

CATALOG NUMBER: 14GR-LD5-50-FGW080-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	3.3
10°-20°	392.1	9.4
20°-30°	590.9	14.2
30°-40°	708.1	17.0
40°-50°	732.3	17.6
50°-60°	664.0	16.0
60°-70°	516.0	12.4
70°-80°	315.1	7.6
80°-90°	98.7	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°	1120.4	27.0
0°-40°	1828.5	44.0
0°-60°	3224.8	77.6
0°-90°	4154.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4154.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1449	1448	1441	1448	1449	138
15°	1390	1390	1385	1392	1392	392
25°	1282	1282	1279	1287	1286	590
35°	1129	1130	1130	1135	1135	706
45°	947	948	950	951	951	731
55°	740	742	744	744	742	662
65°	522	522	522	519	524	516
75°	299	299	297	296	296	316
85°	90	88	89	86	86	100
90°	0	0	0	0	0	



TEST NUMBER: P476356

CATALOG NUMBER: 14GR-LD5-50-FGW080-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.9	1452.9	1452.9	1452.9	1452.9
2.5°	1454.3	1452.9	1446.2	1452.9	1454.3
5°	1448.9	1447.5	1441.1	1447.5	1448.9
7.5°	1439.8	1439.8	1433.1	1439.8	1439.8
10°	1427.7	1426.3	1419.6	1426.3	1427.7
12.5°	1410.5	1410.5	1403.8	1410.5	1411.9
15°	1390.3	1390.3	1385.3	1391.7	1391.7
17.5°	1367.8	1369.2	1362.8	1370.5	1370.5
20°	1342.6	1341.2	1337.5	1343.9	1345.3
22.5°	1312.3	1313.7	1309.6	1317.4	1318.7
25°	1281.7	1281.7	1279.0	1287.1	1285.7
27.5°	1248.4	1248.4	1244.4	1251.1	1252.4
30°	1208.7	1210.0	1208.7	1215.1	1213.7
32.5°	1171.4	1172.7	1172.7	1175.4	1176.7
35°	1129.0	1130.3	1130.3	1135.4	1135.4
37.5°	1086.2	1086.2	1087.6	1091.6	1091.6
40°	1041.2	1042.5	1042.5	1046.5	1047.9
42.5°	997.4	994.7	996.1	1000.1	1000.1
45°	947.0	948.3	949.7	951.0	951.0
47.5°	896.5	899.2	900.5	901.9	900.5
50°	846.1	848.7	848.7	847.4	847.4
52.5°	791.6	798.3	796.9	796.9	799.6
55°	739.7	742.4	743.8	743.8	742.4
57.5°	687.9	690.6	687.9	689.3	686.6
60°	632.1	633.4	632.1	632.1	632.1
62.5°	577.6	578.9	576.3	576.3	576.3
65°	522.1	522.1	522.1	519.4	524.5
67.5°	463.6	466.3	466.3	467.6	462.2
70°	409.1	410.4	409.1	407.7	405.0
72.5°	354.6	355.9	357.3	351.9	350.5
75°	298.7	298.7	297.4	296.0	296.0
77.5°	244.2	244.2	244.2	241.9	241.9
80°	191.4	192.4	190.1	190.1	188.7
82.5°	139.6	139.6	139.6	138.3	135.6
85°	90.2	87.8	89.1	86.5	86.5
87.5°	41.0	41.0	41.0	38.3	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)