

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: P476152

Luminaire Tested: **22GR-LD5-50-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476152
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-FGW080-UNV-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4381.8 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

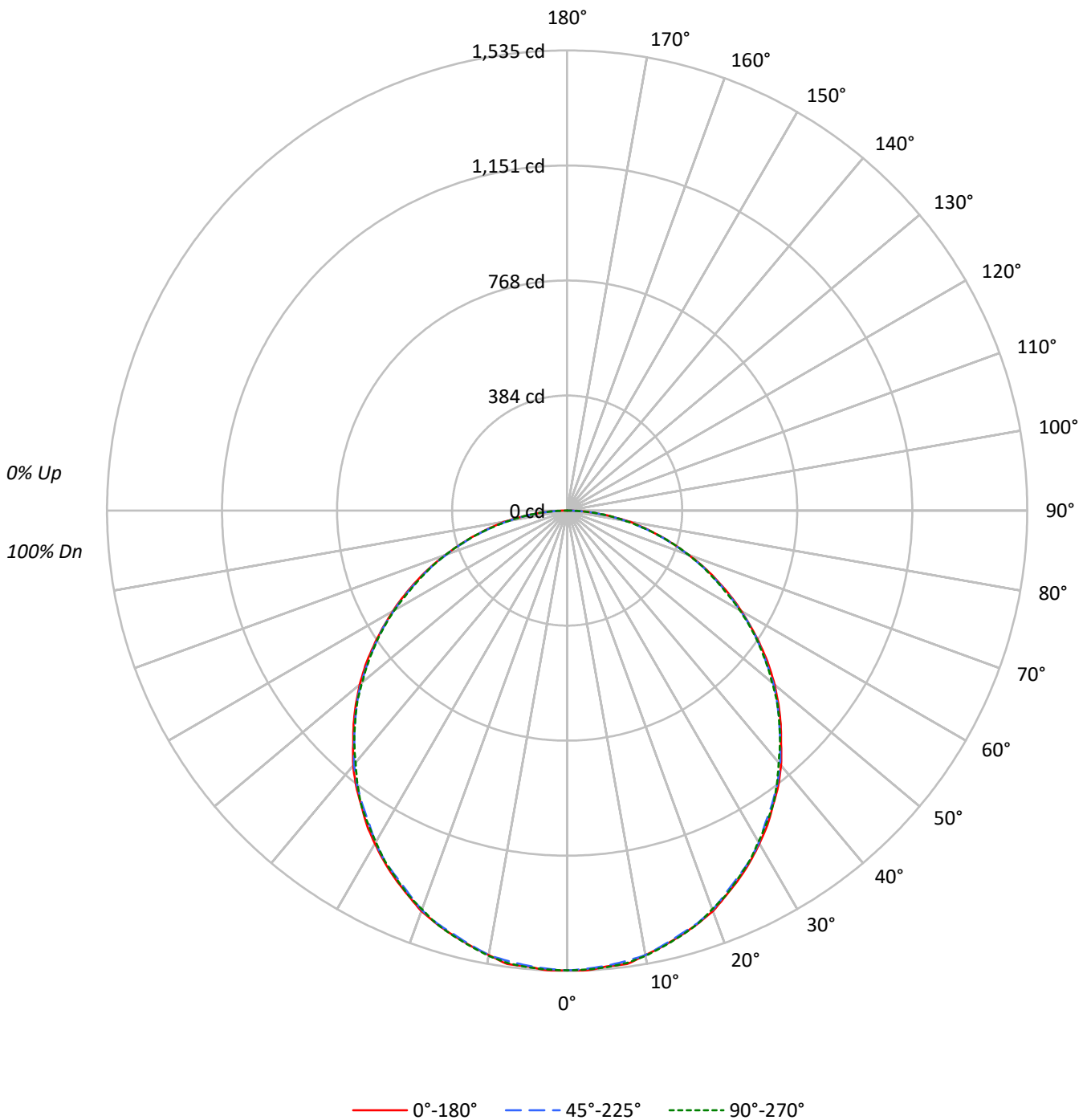
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	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	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	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°	4127	4127	4127
5°	4122	4115	4129
10°	4114	4114	4121
15°	4086	4076	4090
20°	4072	4060	4053
25°	4026	4004	4015
30°	3986	3974	3966
35°	3936	3919	3936
40°	3901	3883	3856
45°	3834	3809	3809
50°	3781	3759	3738
55°	3701	3676	3671
60°	3615	3594	3580
65°	3522	3481	3465
70°	3382	3371	3382
75°	3264	3223	3250
80°	3228	3068	3048
85°	2862	2782	2822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	3.3
10°-20°	414.0	9.4
20°-30°	623.3	14.2
30°-40°	748.1	17.1
40°-50°	774.0	17.7
50°-60°	701.4	16.0
60°-70°	543.7	12.4
70°-80°	330.0	7.5
80°-90°	102.2	2.3
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°	1182.4	27.0
0°-40°	1930.5	44.1
0°-60°	3405.9	77.7
0°-90°	4381.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4381.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1526	1526	1524	1527	1529	145
15°	1467	1467	1463	1469	1468	414
25°	1356	1354	1348	1354	1352	625
35°	1198	1198	1193	1194	1198	751
45°	1007	1006	1001	1001	1001	777
55°	789	788	784	782	782	705
65°	553	553	547	549	544	547
75°	314	313	310	310	313	334
85°	93	91	90	90	91	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1533.8	1533.8	1533.8	1533.8	1533.8
2.5°	1535.1	1528.7	1529.9	1532.5	1532.5
5°	1526.1	1526.1	1523.5	1527.4	1528.7
7.5°	1526.1	1519.6	1515.8	1519.6	1522.2
10°	1505.5	1502.9	1505.5	1504.2	1508.1
12.5°	1487.4	1484.9	1484.9	1488.7	1488.7
15°	1466.8	1466.8	1463.0	1469.4	1468.1
17.5°	1446.2	1446.2	1443.7	1443.7	1446.2
20°	1421.8	1415.3	1417.9	1416.6	1415.3
22.5°	1388.3	1384.4	1381.8	1385.7	1387.0
25°	1356.1	1353.5	1348.4	1353.5	1352.2
27.5°	1321.3	1318.7	1317.5	1314.9	1317.5
30°	1282.7	1280.1	1278.8	1276.2	1276.2
32.5°	1244.0	1238.9	1232.5	1238.9	1237.6
35°	1198.0	1198.0	1192.9	1194.1	1198.0
37.5°	1156.8	1154.2	1151.6	1147.8	1149.1
40°	1110.4	1106.6	1105.3	1102.7	1097.6
42.5°	1056.3	1056.3	1051.2	1052.5	1051.2
45°	1007.4	1006.1	1001.0	1001.0	1001.0
47.5°	955.9	954.6	950.7	948.2	950.7
50°	903.1	897.9	897.9	894.1	892.8
52.5°	848.0	844.2	839.0	840.3	837.7
55°	788.8	787.5	783.6	782.4	782.4
57.5°	729.6	730.8	728.3	723.1	724.4
60°	671.6	670.3	667.7	665.2	665.2
62.5°	612.4	612.4	607.2	607.2	602.1
65°	553.1	553.1	546.7	549.3	544.1
67.5°	494.2	492.9	489.1	487.8	489.1
70°	429.8	431.1	428.5	428.5	429.8
72.5°	371.9	370.6	369.3	369.3	371.9
75°	313.9	312.6	310.0	310.0	312.6
77.5°	261.1	254.7	253.4	256.0	252.1
80°	208.3	199.3	198.0	196.7	196.7
82.5°	146.8	142.9	144.2	142.9	145.5
85°	92.7	91.4	90.1	90.1	91.4
87.5°	43.8	41.2	41.2	39.9	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)