

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: P476128

Luminaire Tested: **22GR-LD5-50-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476128
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-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4149.6 lumens
Efficiency: N/A
Efficacy: 112.5 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

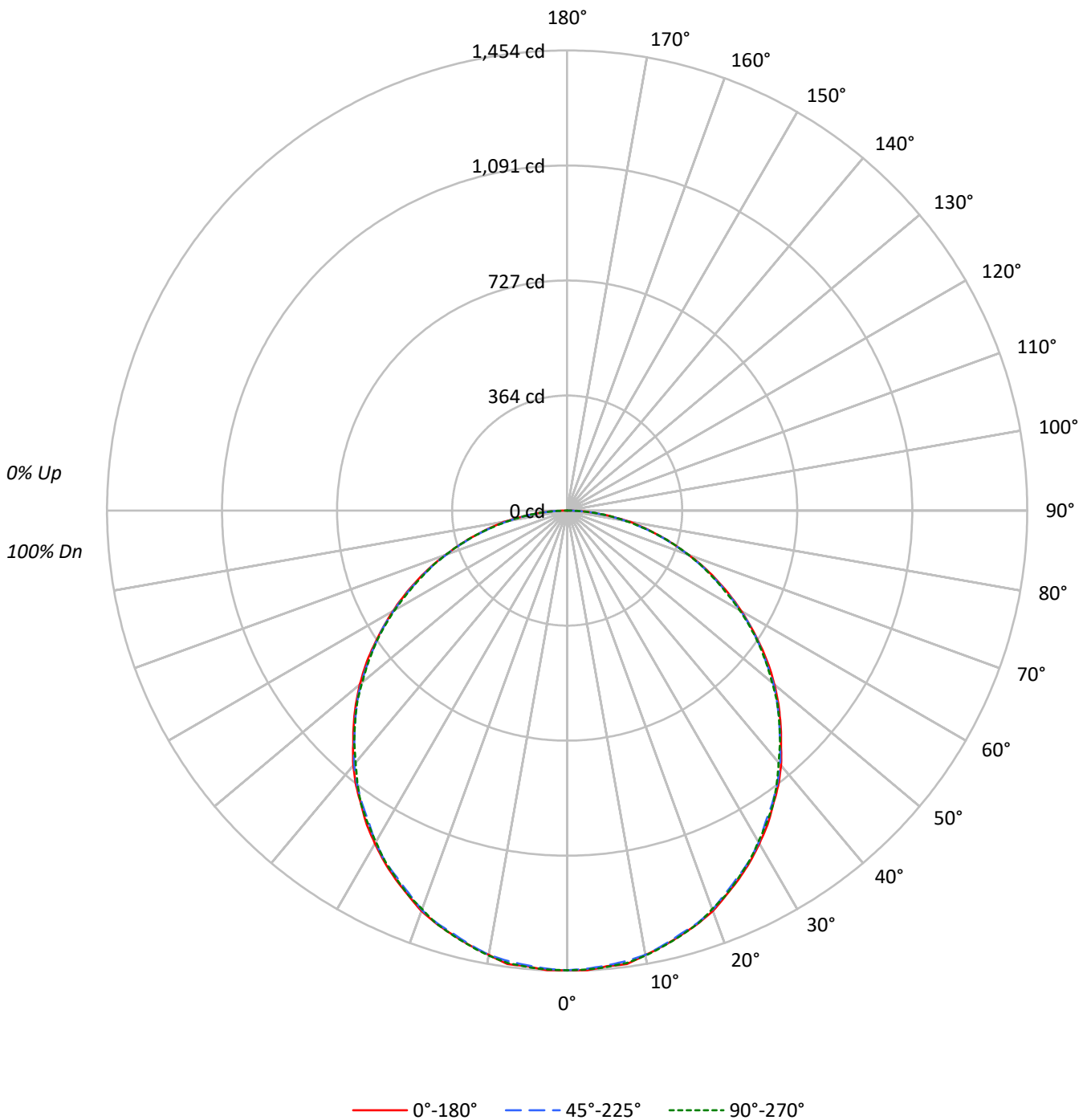
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3909	3909	3909
5°	3904	3897	3910
10°	3896	3896	3902
15°	3870	3860	3873
20°	3856	3845	3838
25°	3813	3791	3802
30°	3774	3763	3755
35°	3727	3711	3727
40°	3694	3677	3651
45°	3631	3607	3607
50°	3580	3560	3540
55°	3505	3482	3476
60°	3423	3404	3390
65°	3335	3296	3281
70°	3202	3193	3202
75°	3091	3053	3079
80°	3058	2906	2887
85°	2711	2637	2674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	3.3
10°-20°	392.0	9.4
20°-30°	590.3	14.2
30°-40°	708.4	17.1
40°-50°	733.0	17.7
50°-60°	664.3	16.0
60°-70°	514.9	12.4
70°-80°	312.5	7.5
80°-90°	96.8	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°	1119.8	27.0
0°-40°	1828.2	44.1
0°-60°	3225.5	77.7
0°-90°	4149.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4149.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1445	1445	1443	1446	1448	138
15°	1389	1389	1386	1392	1390	392
25°	1284	1282	1277	1282	1281	592
35°	1134	1134	1130	1131	1134	711
45°	954	953	948	948	948	736
55°	747	746	742	741	741	668
65°	524	524	518	520	515	518
75°	297	296	294	294	296	316
85°	88	87	85	85	87	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.5	1452.5	1452.5	1452.5	1452.5
2.5°	1453.7	1447.6	1448.9	1451.3	1451.3
5°	1445.2	1445.2	1442.8	1446.4	1447.6
7.5°	1445.2	1439.1	1435.5	1439.1	1441.6
10°	1425.7	1423.3	1425.7	1424.5	1428.1
12.5°	1408.6	1406.2	1406.2	1409.8	1409.8
15°	1389.1	1389.1	1385.5	1391.5	1390.3
17.5°	1369.6	1369.6	1367.2	1367.2	1369.6
20°	1346.4	1340.3	1342.8	1341.5	1340.3
22.5°	1314.7	1311.1	1308.6	1312.3	1313.5
25°	1284.2	1281.8	1276.9	1281.8	1280.6
27.5°	1251.3	1248.9	1247.6	1245.2	1247.6
30°	1214.7	1212.3	1211.0	1208.6	1208.6
32.5°	1178.1	1173.2	1167.1	1173.2	1172.0
35°	1134.5	1134.5	1129.6	1130.9	1134.5
37.5°	1095.5	1093.1	1090.6	1087.0	1088.2
40°	1051.6	1047.9	1046.7	1044.3	1039.4
42.5°	1000.4	1000.4	995.5	996.7	995.5
45°	954.0	952.8	947.9	947.9	947.9
47.5°	905.2	904.0	900.4	897.9	900.4
50°	855.2	850.4	850.4	846.7	845.5
52.5°	803.1	799.4	794.6	795.8	793.3
55°	747.0	745.8	742.1	740.9	740.9
57.5°	690.9	692.1	689.7	684.8	686.0
60°	636.0	634.8	632.4	629.9	629.9
62.5°	579.9	579.9	575.0	575.0	570.2
65°	523.8	523.8	517.7	520.2	515.3
67.5°	468.0	466.8	463.1	461.9	463.1
70°	407.0	408.3	405.8	405.8	407.0
72.5°	352.2	350.9	349.7	349.7	352.2
75°	297.3	296.1	293.6	293.6	296.1
77.5°	247.3	241.2	240.0	242.4	238.7
80°	197.3	188.7	187.5	186.3	186.3
82.5°	139.0	135.4	136.6	135.4	137.8
85°	87.8	86.6	85.4	85.4	86.6
87.5°	41.5	39.0	39.0	37.8	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)