

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: P476140

Luminaire Tested: **22GR-LD5-50-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476140
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-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4300.1 lumens
Efficiency: N/A
Efficacy: 116.5 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

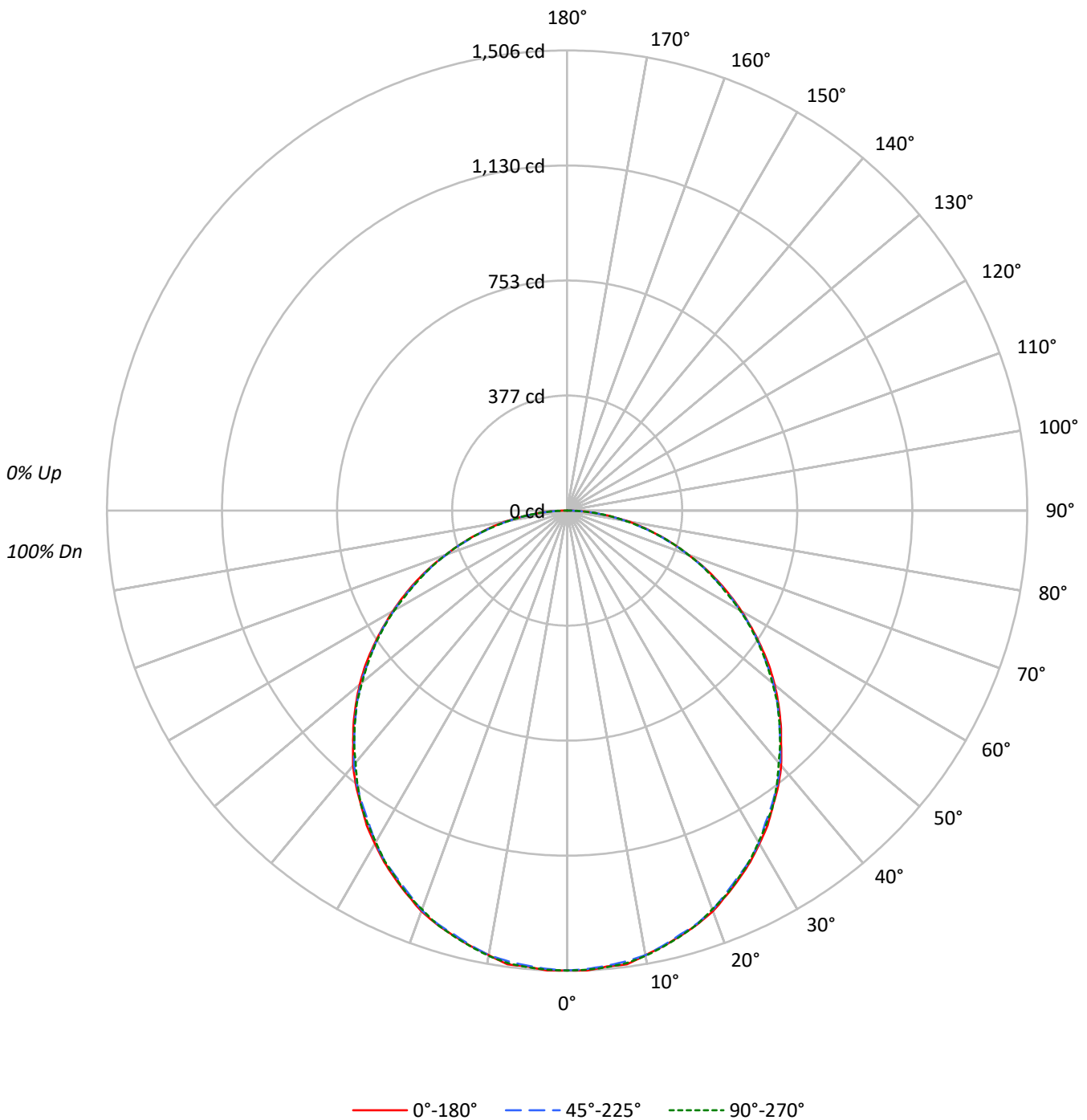
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4050	4050	4050
5°	4045	4039	4052
10°	4037	4037	4044
15°	4010	4000	4014
20°	3996	3985	3977
25°	3951	3929	3940
30°	3911	3900	3892
35°	3862	3846	3862
40°	3828	3810	3784
45°	3762	3738	3738
50°	3710	3689	3668
55°	3632	3608	3602
60°	3547	3527	3513
65°	3456	3416	3400
70°	3319	3308	3319
75°	3203	3164	3190
80°	3168	3011	2991
85°	2810	2732	2770



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.3
10°-20°	406.3	9.4
20°-30°	611.7	14.2
30°-40°	734.1	17.1
40°-50°	759.6	17.7
50°-60°	688.4	16.0
60°-70°	533.5	12.4
70°-80°	323.9	7.5
80°-90°	100.3	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°	1160.4	27.0
0°-40°	1894.5	44.1
0°-60°	3342.4	77.7
0°-90°	4300.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4300.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1498	1498	1495	1499	1500	143
15°	1440	1440	1436	1442	1441	407
25°	1331	1328	1323	1328	1327	613
35°	1176	1176	1171	1172	1176	737
45°	989	987	982	982	982	763
55°	774	773	769	768	768	692
65°	543	543	536	539	534	537
75°	308	307	304	304	307	328
85°	91	90	88	88	90	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.2	1505.2	1505.2	1505.2	1505.2
2.5°	1506.5	1500.2	1501.4	1503.9	1503.9
5°	1497.6	1497.6	1495.1	1498.9	1500.2
7.5°	1497.6	1491.3	1487.5	1491.3	1493.8
10°	1477.4	1474.9	1477.4	1476.1	1479.9
12.5°	1459.7	1457.2	1457.2	1461.0	1461.0
15°	1439.5	1439.5	1435.7	1442.0	1440.8
17.5°	1419.3	1419.3	1416.7	1416.7	1419.3
20°	1395.3	1388.9	1391.5	1390.2	1388.9
22.5°	1362.4	1358.6	1356.1	1359.9	1361.1
25°	1330.8	1328.3	1323.2	1328.3	1327.0
27.5°	1296.7	1294.2	1292.9	1290.4	1292.9
30°	1258.8	1256.2	1255.0	1252.4	1252.4
32.5°	1220.9	1215.8	1209.5	1215.8	1214.5
35°	1175.7	1175.7	1170.6	1171.9	1175.7
37.5°	1135.2	1132.7	1130.2	1126.4	1127.6
40°	1089.7	1085.9	1084.7	1082.1	1077.1
42.5°	1036.6	1036.6	1031.6	1032.9	1031.6
45°	988.6	987.4	982.3	982.3	982.3
47.5°	938.1	936.8	933.0	930.5	933.0
50°	886.3	881.2	881.2	877.4	876.1
52.5°	832.2	828.4	823.4	824.6	822.1
55°	774.1	772.8	769.0	767.8	767.8
57.5°	716.0	717.2	714.7	709.6	710.9
60°	659.1	657.8	655.3	652.8	652.8
62.5°	600.9	600.9	595.9	595.9	590.8
65°	542.8	542.8	536.5	539.0	534.0
67.5°	485.0	483.7	479.9	478.7	479.9
70°	421.8	423.1	420.5	420.5	421.8
72.5°	364.9	363.7	362.4	362.4	364.9
75°	308.1	306.8	304.3	304.3	306.8
77.5°	256.2	249.9	248.7	251.2	247.4
80°	204.4	195.6	194.3	193.0	193.0
82.5°	144.1	140.3	141.5	140.3	142.8
85°	91.0	89.7	88.5	88.5	89.7
87.5°	43.0	40.4	40.4	39.2	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)