

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: P476158

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476158
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-FGW080-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2109.4 lumens
Efficiency: N/A
Efficacy: 117.8 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

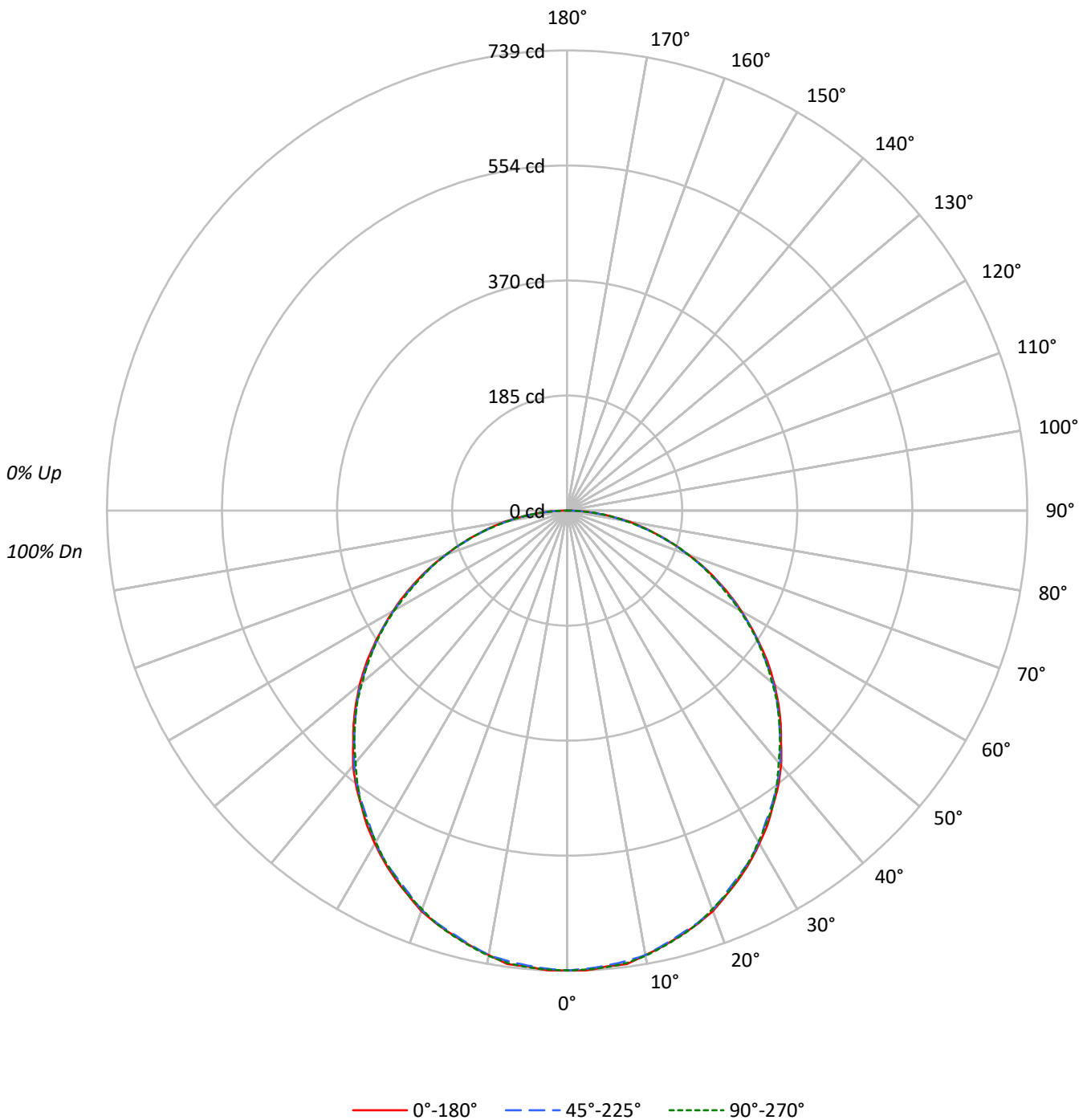
Input Watts (W): 17.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1987	1987	1987
5°	1985	1981	1988
10°	1980	1980	1984
15°	1967	1962	1969
20°	1960	1955	1951
25°	1938	1927	1933
30°	1919	1913	1909
35°	1895	1886	1895
40°	1878	1869	1856
45°	1846	1834	1834
50°	1820	1810	1799
55°	1781	1770	1767
60°	1740	1730	1723
65°	1696	1676	1668
70°	1628	1623	1628
75°	1571	1552	1565
80°	1554	1477	1468
85°	1377	1340	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.3
10°-20°	199.3	9.4
20°-30°	300.1	14.2
30°-40°	360.1	17.1
40°-50°	372.6	17.7
50°-60°	337.7	16.0
60°-70°	261.7	12.4
70°-80°	158.9	7.5
80°-90°	49.2	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°	569.2	27.0
0°-40°	929.3	44.1
0°-60°	1639.6	77.7
0°-90°	2109.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	735	735	733	735	736	70
15°	706	706	704	707	707	199
25°	653	652	649	652	651	301
35°	577	577	574	575	577	362
45°	485	484	482	482	482	374
55°	380	379	377	377	377	340
65°	266	266	263	264	262	263
75°	151	150	149	149	150	161
85°	45	44	43	43	44	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738.4	738.4	738.4	738.4	738.4
2.5°	739.0	735.9	736.5	737.8	737.8
5°	734.7	734.7	733.4	735.3	735.9
7.5°	734.7	731.6	729.7	731.6	732.8
10°	724.7	723.5	724.7	724.1	726.0
12.5°	716.1	714.8	714.8	716.7	716.7
15°	706.1	706.1	704.3	707.4	706.8
17.5°	696.2	696.2	695.0	695.0	696.2
20°	684.4	681.3	682.6	682.0	681.3
22.5°	668.3	666.5	665.2	667.1	667.7
25°	652.8	651.6	649.1	651.6	651.0
27.5°	636.1	634.8	634.2	633.0	634.2
30°	617.5	616.2	615.6	614.4	614.4
32.5°	598.9	596.4	593.3	596.4	595.8
35°	576.7	576.7	574.2	574.9	576.7
37.5°	556.9	555.6	554.4	552.5	553.2
40°	534.6	532.7	532.1	530.8	528.4
42.5°	508.5	508.5	506.0	506.7	506.0
45°	485.0	484.3	481.9	481.9	481.9
47.5°	460.2	459.5	457.7	456.4	457.7
50°	434.7	432.3	432.3	430.4	429.8
52.5°	408.2	406.4	403.9	404.5	403.3
55°	379.7	379.1	377.2	376.6	376.6
57.5°	351.2	351.8	350.6	348.1	348.7
60°	323.3	322.7	321.4	320.2	320.2
62.5°	294.8	294.8	292.3	292.3	289.8
65°	266.3	266.3	263.2	264.4	261.9
67.5°	237.9	237.3	235.4	234.8	235.4
70°	206.9	207.5	206.3	206.3	206.9
72.5°	179.0	178.4	177.8	177.8	179.0
75°	151.1	150.5	149.3	149.3	150.5
77.5°	125.7	122.6	122.0	123.2	121.4
80°	100.3	95.9	95.3	94.7	94.7
82.5°	70.7	68.8	69.4	68.8	70.1
85°	44.6	44.0	43.4	43.4	44.0
87.5°	21.1	19.8	19.8	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)