

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: P476130

Luminaire Tested: **22GR-LD5-70-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476130  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-70-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: 5789.3 lumens  
Efficiency: N/A  
Efficacy: 110.7 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

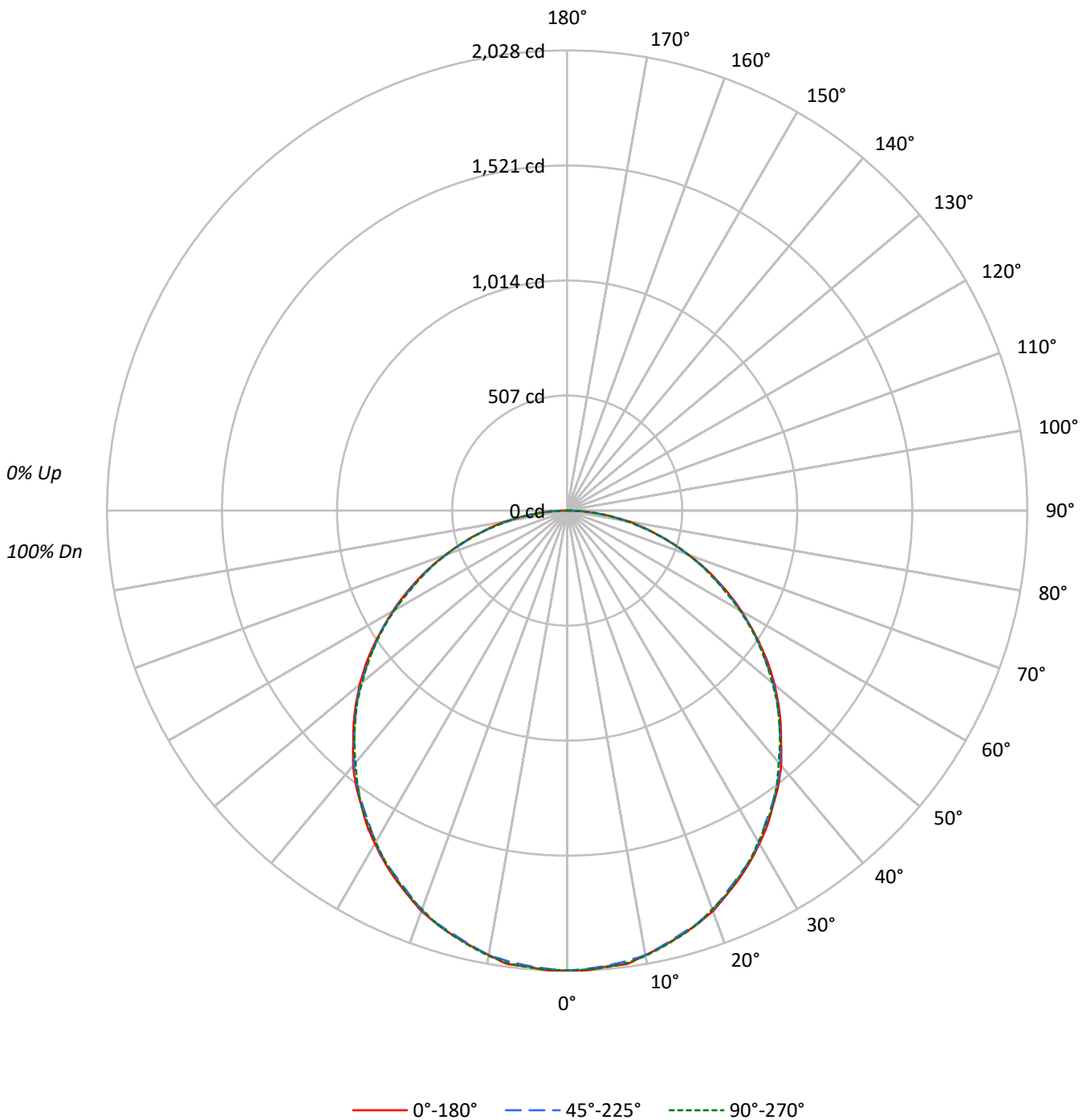
Input Watts (W): 52.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5453	5453	5453
5°	5447	5437	5456
10°	5435	5435	5444
15°	5399	5385	5404
20°	5379	5365	5355
25°	5320	5290	5305
30°	5266	5250	5239
35°	5200	5177	5200
40°	5154	5130	5094
45°	5065	5033	5033
50°	4995	4967	4938
55°	4890	4858	4850
60°	4775	4748	4730
65°	4653	4599	4578
70°	4468	4455	4468
75°	4312	4259	4294
80°	4265	4054	4028
85°	3782	3677	3730



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.7	3.3
10°-20°	547.0	9.4
20°-30°	823.6	14.2
30°-40°	988.4	17.1
40°-50°	1022.6	17.7
50°-60°	926.8	16.0
60°-70°	718.3	12.4
70°-80°	436.0	7.5
80°-90°	135.0	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°	1562.2	27.0
0°-40°	2550.6	44.1
0°-60°	4499.9	77.7
0°-90°	5789.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5789.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2026	2026	2026	2026	2026	
5°	2016	2016	2013	2018	2020	192
15°	1938	1938	1933	1941	1940	547
25°	1792	1788	1782	1788	1787	826
35°	1583	1583	1576	1578	1583	992
45°	1331	1329	1322	1322	1322	1027
55°	1042	1040	1035	1034	1034	932
65°	731	731	722	726	719	723
75°	415	413	410	410	413	441
85°	122	121	119	119	121	139
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2026.5	2026.5	2026.5	2026.5	2026.5
2.5°	2028.2	2019.7	2021.4	2024.8	2024.8
5°	2016.3	2016.3	2012.9	2018.0	2019.7
7.5°	2016.3	2007.8	2002.7	2007.8	2011.2
10°	1989.0	1985.6	1989.0	1987.3	1992.4
12.5°	1965.2	1961.8	1961.8	1966.9	1966.9
15°	1938.0	1938.0	1932.9	1941.4	1939.7
17.5°	1910.8	1910.8	1907.4	1907.4	1910.8
20°	1878.4	1869.9	1873.3	1871.6	1869.9
22.5°	1834.2	1829.1	1825.7	1830.8	1832.5
25°	1791.7	1788.3	1781.5	1788.3	1786.6
27.5°	1745.7	1742.3	1740.6	1737.2	1740.6
30°	1694.7	1691.3	1689.6	1686.2	1686.2
32.5°	1643.6	1636.8	1628.3	1636.8	1635.1
35°	1582.8	1582.8	1576.0	1577.7	1582.8
37.5°	1528.4	1525.0	1521.6	1516.5	1518.2
40°	1467.1	1462.0	1460.3	1456.9	1450.1
42.5°	1395.6	1395.6	1388.8	1390.5	1388.8
45°	1331.0	1329.3	1322.5	1322.5	1322.5
47.5°	1262.9	1261.2	1256.1	1252.7	1256.1
50°	1193.2	1186.4	1186.4	1181.3	1179.6
52.5°	1120.4	1115.3	1108.5	1110.2	1106.8
55°	1042.2	1040.5	1035.4	1033.7	1033.7
57.5°	963.9	965.6	962.2	955.4	957.1
60°	887.3	885.6	882.2	878.8	878.8
62.5°	809.1	809.1	802.3	802.3	795.4
65°	730.8	730.8	722.3	725.7	718.9
67.5°	652.9	651.2	646.1	644.4	646.1
70°	567.9	569.6	566.2	566.2	567.9
72.5°	491.3	489.6	487.9	487.9	491.3
75°	414.7	413.0	409.6	409.6	413.0
77.5°	345.0	336.5	334.8	338.2	333.1
80°	275.2	263.3	261.6	259.9	259.9
82.5°	194.0	188.9	190.6	188.9	192.3
85°	122.5	120.8	119.1	119.1	120.8
87.5°	57.9	54.4	54.4	52.7	52.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)