

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: P476165

Luminaire Tested: **22GR-LD5-60-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476165  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-60-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: 5176.9 lumens  
Efficiency: N/A  
Efficacy: 116.6 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

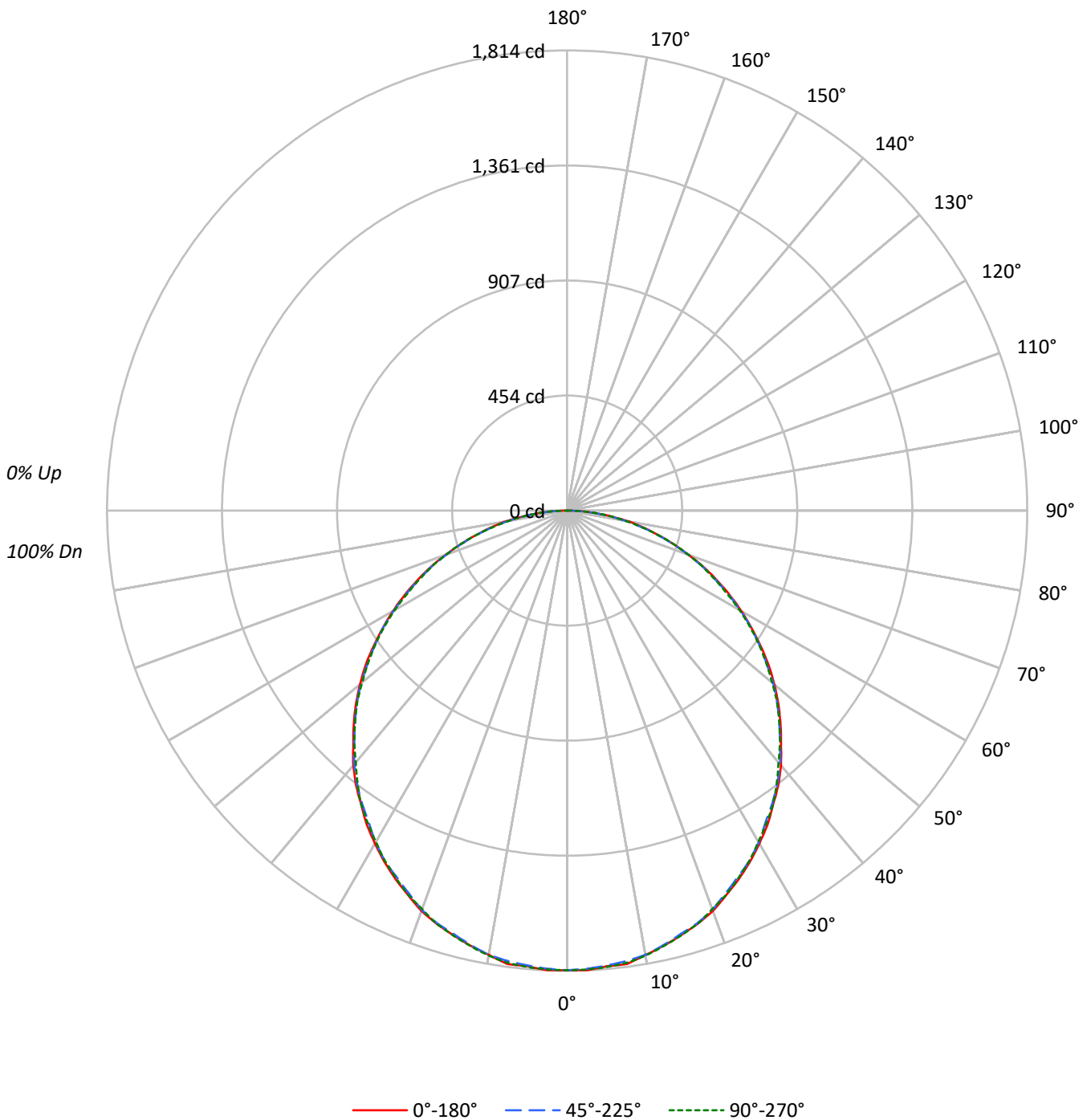
Input Watts (W): 44.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4876	4876	4876
5°	4870	4862	4878
10°	4860	4860	4868
15°	4828	4815	4832
20°	4810	4797	4788
25°	4757	4730	4744
30°	4709	4694	4685
35°	4650	4630	4650
40°	4608	4587	4555
45°	4529	4501	4501
50°	4466	4441	4416
55°	4372	4343	4336
60°	4271	4246	4229
65°	4161	4113	4093
70°	3995	3984	3995
75°	3856	3808	3840
80°	3814	3625	3601
85°	3381	3288	3335



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	3.3
10°-20°	489.1	9.4
20°-30°	736.4	14.2
30°-40°	883.8	17.1
40°-50°	914.4	17.7
50°-60°	828.7	16.0
60°-70°	642.3	12.4
70°-80°	389.9	7.5
80°-90°	120.7	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°	1396.9	27.0
0°-40°	2280.7	44.1
0°-60°	4023.9	77.7
0°-90°	5176.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5176.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1803	1803	1800	1804	1806	172
15°	1733	1733	1728	1736	1734	490
25°	1602	1599	1593	1599	1598	738
35°	1415	1415	1409	1411	1415	887
45°	1190	1189	1183	1183	1183	918
55°	932	930	926	924	924	833
65°	654	654	646	649	643	646
75°	371	369	366	366	369	395
85°	110	108	106	106	108	125
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1812.1	1812.1	1812.1	1812.1	1812.1
2.5°	1813.6	1806.0	1807.5	1810.6	1810.6
5°	1803.0	1803.0	1799.9	1804.5	1806.0
7.5°	1803.0	1795.4	1790.8	1795.4	1798.4
10°	1778.6	1775.6	1778.6	1777.1	1781.7
12.5°	1757.3	1754.3	1754.3	1758.8	1758.8
15°	1733.0	1733.0	1728.4	1736.0	1734.5
17.5°	1708.6	1708.6	1705.6	1705.6	1708.6
20°	1679.7	1672.1	1675.2	1673.6	1672.1
22.5°	1640.2	1635.6	1632.6	1637.1	1638.6
25°	1602.1	1599.1	1593.0	1599.1	1597.6
27.5°	1561.0	1558.0	1556.5	1553.4	1556.5
30°	1515.4	1512.4	1510.8	1507.8	1507.8
32.5°	1469.8	1463.7	1456.1	1463.7	1462.1
35°	1415.4	1415.4	1409.3	1410.8	1415.4
37.5°	1366.7	1363.6	1360.6	1356.0	1357.5
40°	1311.9	1307.3	1305.8	1302.8	1296.7
42.5°	1248.0	1248.0	1241.9	1243.4	1241.9
45°	1190.2	1188.7	1182.6	1182.6	1182.6
47.5°	1129.3	1127.8	1123.2	1120.2	1123.2
50°	1066.9	1060.9	1060.9	1056.3	1054.8
52.5°	1001.9	997.3	991.2	992.8	989.7
55°	931.9	930.4	925.8	924.3	924.3
57.5°	861.9	863.4	860.4	854.3	855.8
60°	793.5	791.9	788.9	785.8	785.8
62.5°	723.5	723.5	717.4	717.4	711.3
65°	653.5	653.5	645.9	648.9	642.8
67.5°	583.9	582.3	577.8	576.3	577.8
70°	507.8	509.3	506.3	506.3	507.8
72.5°	439.3	437.8	436.3	436.3	439.3
75°	370.9	369.3	366.3	366.3	369.3
77.5°	308.5	300.9	299.4	302.4	297.8
80°	246.1	235.4	233.9	232.4	232.4
82.5°	173.4	168.9	170.4	168.9	171.9
85°	109.5	108.0	106.5	106.5	108.0
87.5°	51.7	48.7	48.7	47.2	47.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)