

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: P476134

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476134  
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-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: 2068.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

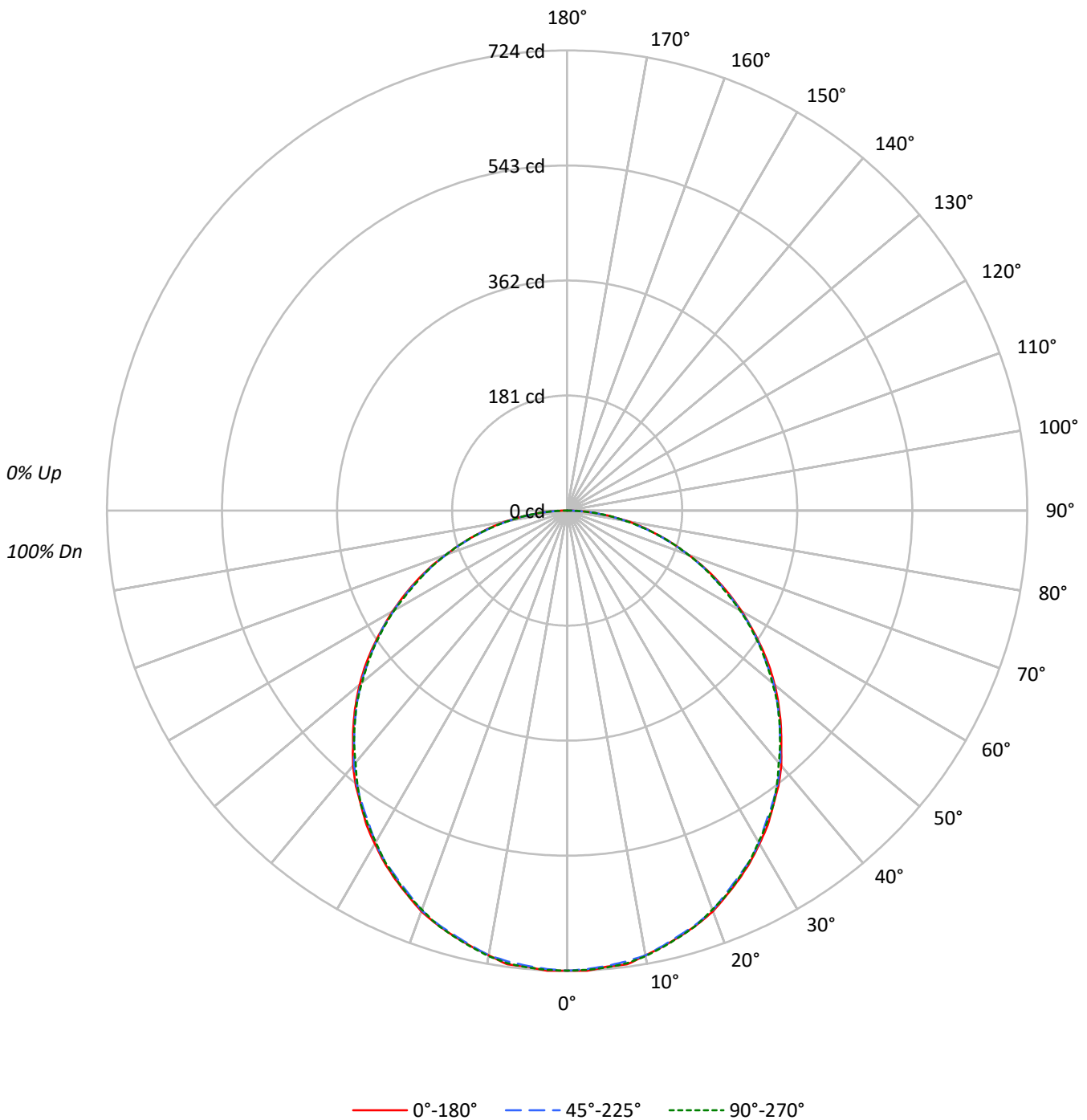
Input Watts (W): 17.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1948	1948	1948
5°	1945	1942	1949
10°	1941	1941	1945
15°	1929	1924	1930
20°	1922	1916	1913
25°	1900	1890	1895
30°	1881	1875	1872
35°	1857	1849	1857
40°	1841	1832	1820
45°	1810	1798	1798
50°	1784	1774	1764
55°	1747	1735	1732
60°	1706	1696	1689
65°	1663	1643	1635
70°	1596	1591	1596
75°	1541	1521	1534
80°	1523	1447	1438
85°	1352	1312	1334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	3.3
10°-20°	195.4	9.4
20°-30°	294.2	14.2
30°-40°	353.1	17.1
40°-50°	365.3	17.7
50°-60°	331.0	16.0
60°-70°	256.6	12.4
70°-80°	155.8	7.5
80°-90°	48.2	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°	558.1	27.0
0°-40°	911.1	44.1
0°-60°	1607.5	77.7
0°-90°	2068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2068.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	720	720	719	721	722	69
15°	692	692	690	694	693	196
25°	640	639	636	639	638	295
35°	565	565	563	564	565	354
45°	476	475	472	472	472	367
55°	372	372	370	369	369	333
65°	261	261	258	259	257	258
75°	148	148	146	146	148	158
85°	44	43	42	42	43	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	723.9	723.9	723.9	723.9	723.9
2.5°	724.5	721.5	722.1	723.3	723.3
5°	720.2	720.2	719.0	720.9	721.5
7.5°	720.2	717.2	715.4	717.2	718.4
10°	710.5	709.3	710.5	709.9	711.7
12.5°	702.0	700.8	700.8	702.6	702.6
15°	692.3	692.3	690.5	693.5	692.9
17.5°	682.6	682.6	681.3	681.3	682.6
20°	671.0	668.0	669.2	668.6	668.0
22.5°	655.2	653.4	652.2	654.0	654.6
25°	640.0	638.8	636.4	638.8	638.2
27.5°	623.6	622.4	621.8	620.6	621.8
30°	605.4	604.2	603.5	602.3	602.3
32.5°	587.1	584.7	581.7	584.7	584.1
35°	565.4	565.4	563.0	563.6	565.4
37.5°	546.0	544.7	543.5	541.7	542.3
40°	524.1	522.3	521.6	520.4	518.0
42.5°	498.6	498.6	496.1	496.7	496.1
45°	475.5	474.8	472.4	472.4	472.4
47.5°	451.1	450.5	448.7	447.5	448.7
50°	426.2	423.8	423.8	422.0	421.4
52.5°	400.2	398.4	396.0	396.6	395.4
55°	372.3	371.7	369.8	369.2	369.2
57.5°	344.3	344.9	343.7	341.3	341.9
60°	317.0	316.4	315.1	313.9	313.9
62.5°	289.0	289.0	286.6	286.6	284.1
65°	261.1	261.1	258.0	259.2	256.8
67.5°	233.2	232.6	230.8	230.2	230.8
70°	202.9	203.5	202.2	202.2	202.9
72.5°	175.5	174.9	174.3	174.3	175.5
75°	148.2	147.5	146.3	146.3	147.5
77.5°	123.2	120.2	119.6	120.8	119.0
80°	98.3	94.1	93.4	92.8	92.8
82.5°	69.3	67.5	68.1	67.5	68.7
85°	43.8	43.2	42.5	42.5	43.2
87.5°	20.7	19.4	19.4	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)