

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: P476368

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476368  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-24-FGW080-UNV-L840-CD1-U  
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

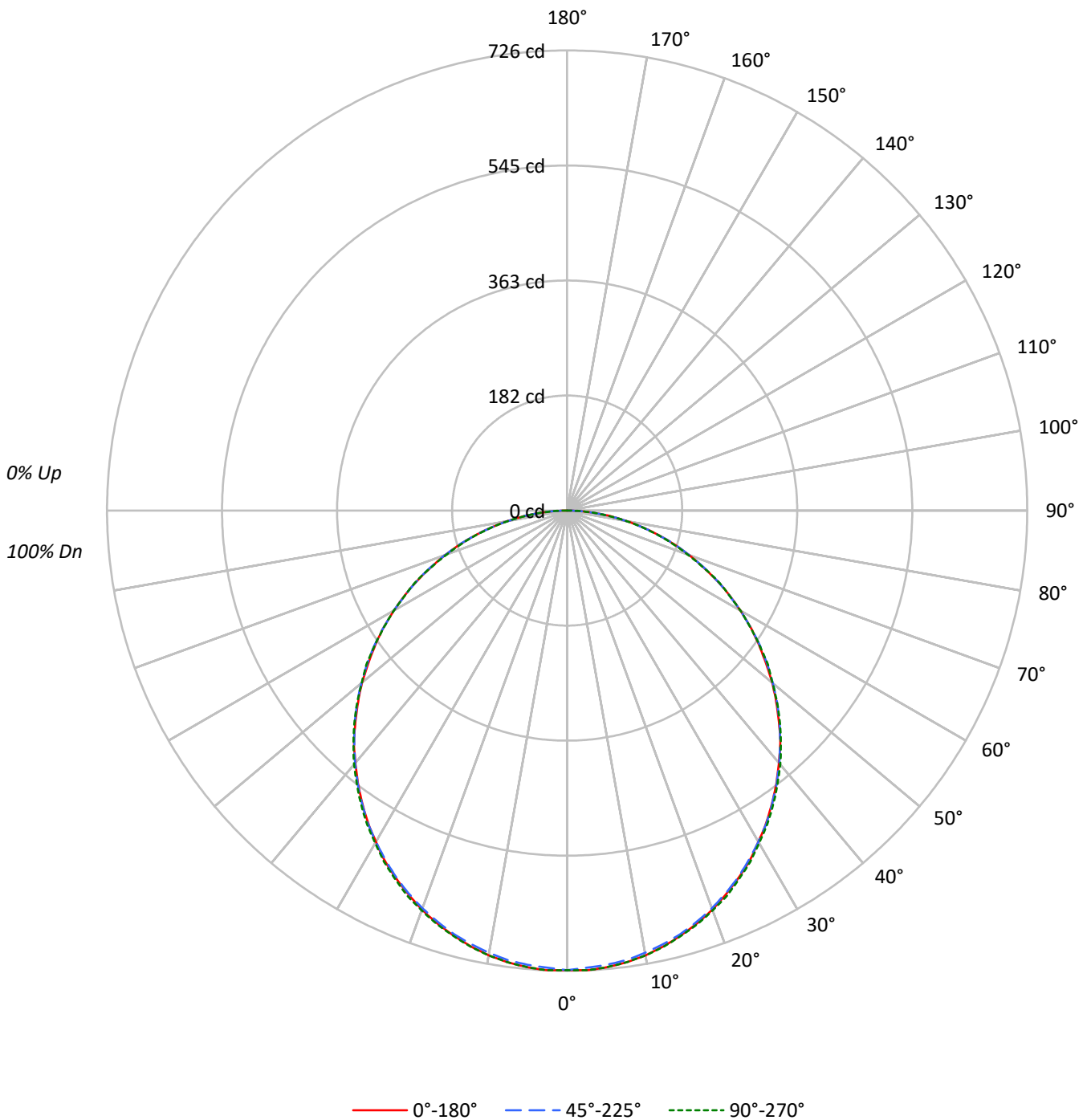
Lumens per Lamp: N/A  
Luminaire Lumens: 2073.6 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.5  
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	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	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	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	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°	1951	1951	1951
5°	1953	1943	1953
10°	1947	1936	1947
15°	1933	1926	1935
20°	1919	1912	1923
25°	1899	1896	1905
30°	1875	1875	1882
35°	1851	1853	1862
40°	1826	1828	1837
45°	1799	1804	1807
50°	1768	1773	1770
55°	1732	1742	1739
60°	1698	1698	1698
65°	1659	1659	1667
70°	1607	1607	1591
75°	1550	1543	1537
80°	1480	1471	1460
85°	1389	1374	1334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.6	3.3
10°-20°	195.7	9.4
20°-30°	294.9	14.2
30°-40°	353.4	17.0
40°-50°	365.5	17.6
50°-60°	331.4	16.0
60°-70°	257.6	12.4
70°-80°	157.3	7.6
80°-90°	49.3	2.4
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°	559.2	27.0
0°-40°	912.6	44.0
0°-60°	1609.5	77.6
0°-90°	2073.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2073.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	723	722	719	722	723	69
15°	694	694	691	695	695	196
25°	640	640	638	642	642	295
35°	564	564	564	567	567	353
45°	473	473	474	475	475	365
55°	369	371	371	371	371	330
65°	261	261	261	259	262	257
75°	149	149	148	148	148	158
85°	45	44	44	43	43	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	725.2	725.2	725.2	725.2	725.2
2.5°	725.8	725.2	721.8	725.2	725.8
5°	723.1	722.5	719.3	722.5	723.1
7.5°	718.6	718.6	715.3	718.6	718.6
10°	712.6	711.9	708.5	711.9	712.6
12.5°	704.0	704.0	700.6	704.0	704.7
15°	693.9	693.9	691.4	694.6	694.6
17.5°	682.7	683.4	680.2	684.0	684.0
20°	670.1	669.4	667.6	670.8	671.4
22.5°	655.0	655.6	653.6	657.5	658.2
25°	639.7	639.7	638.4	642.4	641.7
27.5°	623.1	623.1	621.1	624.4	625.1
30°	603.3	603.9	603.3	606.5	605.8
32.5°	584.6	585.3	585.3	586.6	587.3
35°	563.5	564.1	564.1	566.7	566.7
37.5°	542.1	542.1	542.8	544.8	544.8
40°	519.7	520.3	520.3	522.3	523.0
42.5°	497.8	496.5	497.2	499.2	499.2
45°	472.6	473.3	474.0	474.7	474.7
47.5°	447.5	448.8	449.5	450.1	449.5
50°	422.3	423.6	423.6	422.9	422.9
52.5°	395.1	398.4	397.8	397.8	399.1
55°	369.2	370.6	371.2	371.2	370.6
57.5°	343.4	344.7	343.4	344.0	342.7
60°	315.5	316.2	315.5	315.5	315.5
62.5°	288.3	289.0	287.6	287.6	287.6
65°	260.6	260.6	260.6	259.2	261.8
67.5°	231.4	232.7	232.7	233.4	230.7
70°	204.2	204.8	204.2	203.5	202.2
72.5°	177.0	177.6	178.3	175.6	175.0
75°	149.1	149.1	148.4	147.8	147.8
77.5°	121.9	121.9	121.9	120.7	120.7
80°	95.5	96.0	94.9	94.9	94.2
82.5°	69.7	69.7	69.7	69.0	67.7
85°	45.0	43.8	44.5	43.2	43.2
87.5°	20.5	20.5	20.5	19.1	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)