

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: P476377

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476377
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-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

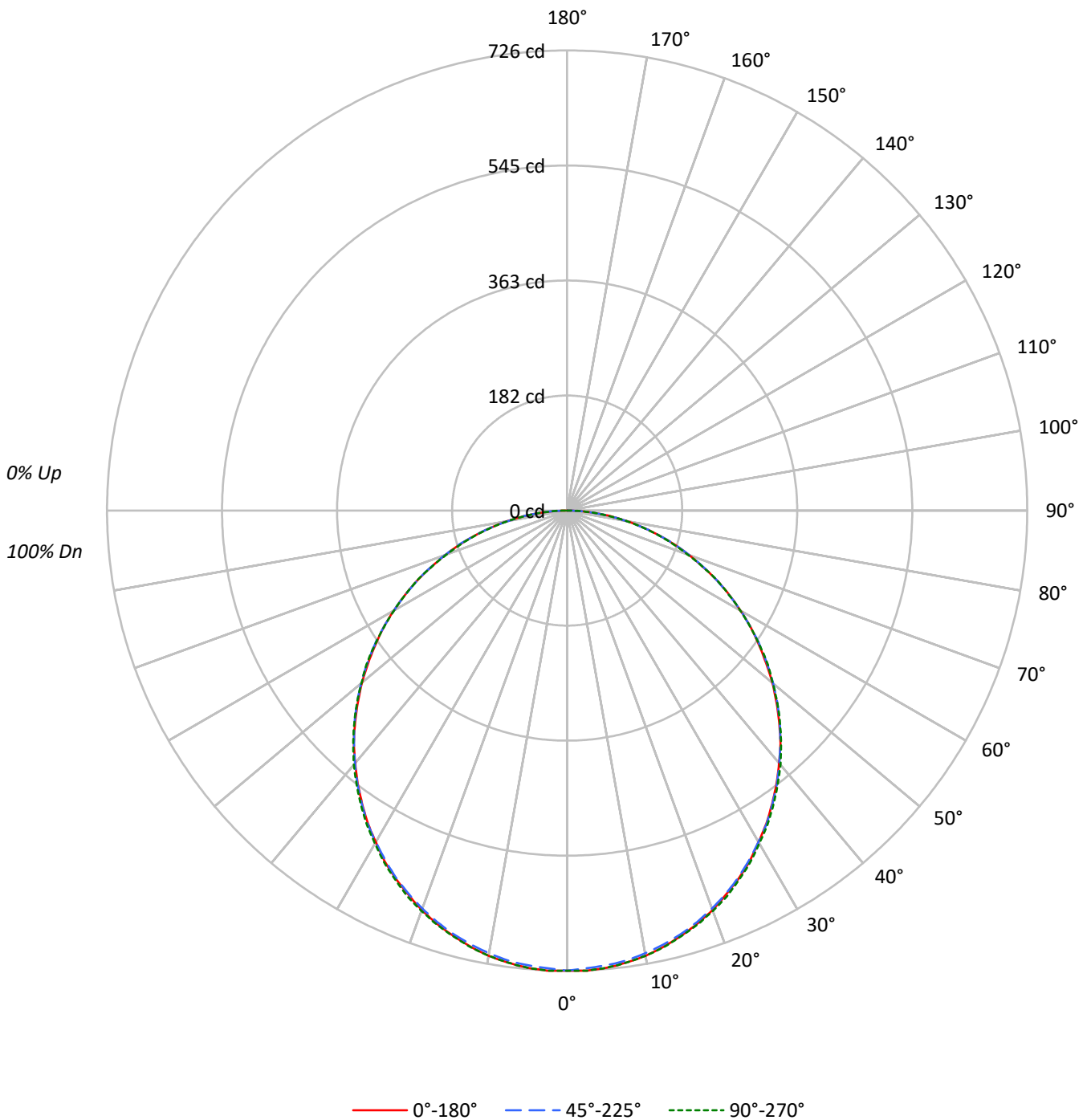
Lumens per Lamp: N/A
Luminaire Lumens: 2075.6 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	1953	1953	1953
5°	1955	1945	1955
10°	1949	1938	1949
15°	1935	1928	1937
20°	1921	1914	1925
25°	1901	1897	1907
30°	1876	1876	1884
35°	1853	1855	1863
40°	1827	1829	1839
45°	1800	1805	1808
50°	1770	1775	1773
55°	1734	1743	1740
60°	1700	1700	1700
65°	1661	1661	1668
70°	1608	1608	1592
75°	1551	1545	1538
80°	1481	1472	1461
85°	1389	1374	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	3.3
10°-20°	195.9	9.4
20°-30°	295.2	14.2
30°-40°	353.8	17.0
40°-50°	365.8	17.6
50°-60°	331.7	16.0
60°-70°	257.8	12.4
70°-80°	157.4	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°	559.8	27.0
0°-40°	913.5	44.0
0°-60°	1611.1	77.6
0°-90°	2075.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2075.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	724	723	720	723	724	69
15°	695	695	692	695	695	196
25°	640	640	639	643	642	295
35°	564	565	565	567	567	353
45°	473	474	474	475	475	365
55°	370	371	372	372	371	331
65°	261	261	261	260	262	258
75°	149	149	149	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°	725.9	725.9	725.9	725.9	725.9
2.5°	726.5	725.9	722.5	725.9	726.5
5°	723.9	723.2	720.0	723.2	723.9
7.5°	719.3	719.3	716.0	719.3	719.3
10°	713.3	712.6	709.2	712.6	713.3
12.5°	704.7	704.7	701.3	704.7	705.4
15°	694.6	694.6	692.1	695.3	695.3
17.5°	683.4	684.0	680.8	684.7	684.7
20°	670.7	670.1	668.2	671.4	672.1
22.5°	655.6	656.3	654.3	658.1	658.8
25°	640.3	640.3	639.0	643.0	642.3
27.5°	623.7	623.7	621.7	625.0	625.7
30°	603.9	604.5	603.9	607.0	606.4
32.5°	585.2	585.9	585.9	587.2	587.9
35°	564.0	564.7	564.7	567.2	567.2
37.5°	542.7	542.7	543.4	545.4	545.4
40°	520.2	520.8	520.8	522.8	523.5
42.5°	498.3	497.0	497.6	499.7	499.7
45°	473.1	473.8	474.4	475.1	475.1
47.5°	447.9	449.2	449.9	450.6	449.9
50°	422.7	424.0	424.0	423.4	423.4
52.5°	395.5	398.8	398.1	398.1	399.5
55°	369.6	370.9	371.6	371.6	370.9
57.5°	343.7	345.0	343.7	344.4	343.0
60°	315.8	316.5	315.8	315.8	315.8
62.5°	288.6	289.2	287.9	287.9	287.9
65°	260.8	260.8	260.8	259.5	262.0
67.5°	231.6	232.9	232.9	233.6	230.9
70°	204.4	205.0	204.4	203.7	202.3
72.5°	177.1	177.8	178.5	175.8	175.1
75°	149.2	149.2	148.6	147.9	147.9
77.5°	122.0	122.0	122.0	120.8	120.8
80°	95.6	96.1	95.0	95.0	94.3
82.5°	69.7	69.7	69.7	69.1	67.7
85°	45.0	43.9	44.5	43.2	43.2
87.5°	20.5	20.5	20.5	19.2	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)