

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: P476359

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476359
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-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

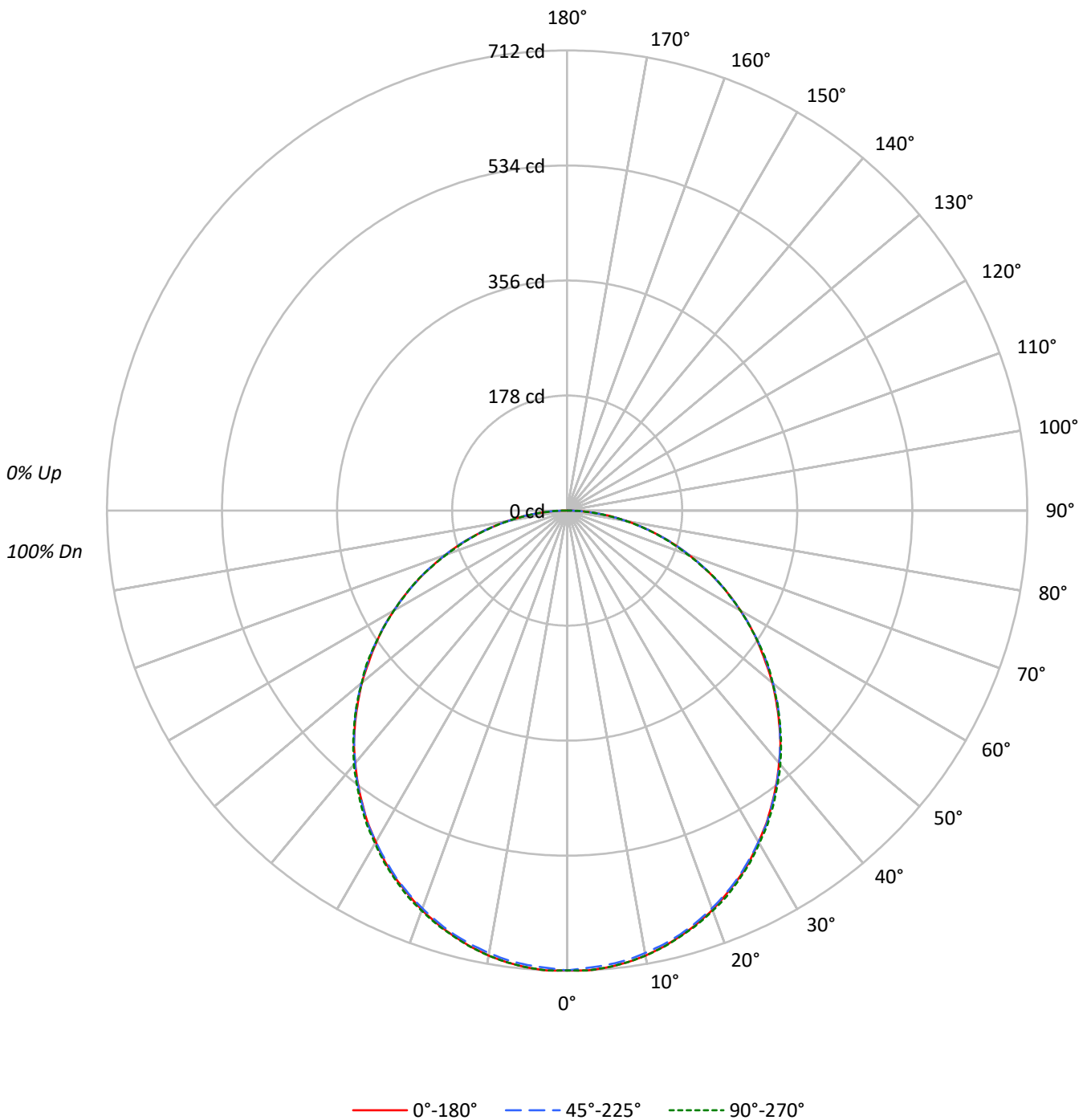
Lumens per Lamp: N/A
Luminaire Lumens: 2034.9 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	1915	1915	1915
5°	1917	1907	1917
10°	1911	1900	1911
15°	1897	1890	1899
20°	1883	1876	1887
25°	1864	1860	1870
30°	1840	1840	1847
35°	1817	1819	1827
40°	1792	1794	1803
45°	1765	1770	1773
50°	1735	1740	1738
55°	1700	1709	1706
60°	1666	1666	1666
65°	1628	1628	1636
70°	1577	1577	1561
75°	1521	1515	1508
80°	1454	1443	1432
85°	1365	1349	1306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	3.3
10°-20°	192.1	9.4
20°-30°	289.4	14.2
30°-40°	346.8	17.0
40°-50°	358.7	17.6
50°-60°	325.2	16.0
60°-70°	252.7	12.4
70°-80°	154.3	7.6
80°-90°	48.3	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°	548.8	27.0
0°-40°	895.6	44.0
0°-60°	1579.5	77.6
0°-90°	2034.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2034.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	710	709	706	709	710	67
15°	681	681	678	682	682	192
25°	628	628	626	630	630	289
35°	553	554	554	556	556	346
45°	464	464	465	466	466	358
55°	362	364	364	364	364	324
65°	256	256	256	254	257	253
75°	146	146	146	145	145	155
85°	44	43	44	42	42	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.6	711.6	711.6	711.6	711.6
2.5°	712.3	711.6	708.3	711.6	712.3
5°	709.7	709.0	705.9	709.0	709.7
7.5°	705.2	705.2	701.9	705.2	705.2
10°	699.3	698.6	695.3	698.6	699.3
12.5°	690.9	690.9	687.6	690.9	691.5
15°	681.0	681.0	678.5	681.7	681.7
17.5°	670.0	670.6	667.5	671.3	671.3
20°	657.6	656.9	655.1	658.3	658.9
22.5°	642.8	643.4	641.4	645.2	645.9
25°	627.8	627.8	626.5	630.4	629.7
27.5°	611.5	611.5	609.5	612.8	613.4
30°	592.0	592.7	592.0	595.1	594.5
32.5°	573.7	574.4	574.4	575.7	576.4
35°	553.0	553.6	553.6	556.1	556.1
37.5°	532.0	532.0	532.7	534.7	534.7
40°	510.0	510.6	510.6	512.6	513.3
42.5°	488.5	487.2	487.9	489.9	489.9
45°	463.8	464.5	465.1	465.8	465.8
47.5°	439.1	440.4	441.1	441.7	441.1
50°	414.4	415.7	415.7	415.1	415.1
52.5°	387.7	391.0	390.3	390.3	391.7
55°	362.3	363.6	364.3	364.3	363.6
57.5°	337.0	338.3	337.0	337.6	336.3
60°	309.6	310.3	309.6	309.6	309.6
62.5°	282.9	283.6	282.2	282.2	282.2
65°	255.7	255.7	255.7	254.4	256.9
67.5°	227.1	228.4	228.4	229.0	226.4
70°	200.4	201.0	200.4	199.7	198.4
72.5°	173.7	174.3	175.0	172.3	171.7
75°	146.3	146.3	145.7	145.0	145.0
77.5°	119.6	119.6	119.6	118.5	118.5
80°	93.8	94.2	93.1	93.1	92.4
82.5°	68.4	68.4	68.4	67.7	66.4
85°	44.2	43.0	43.7	42.3	42.3
87.5°	20.1	20.1	20.1	18.8	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)