

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: P476360

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476360
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-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: 2399.6 lumens
Efficiency: N/A
Efficacy: 103.0 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

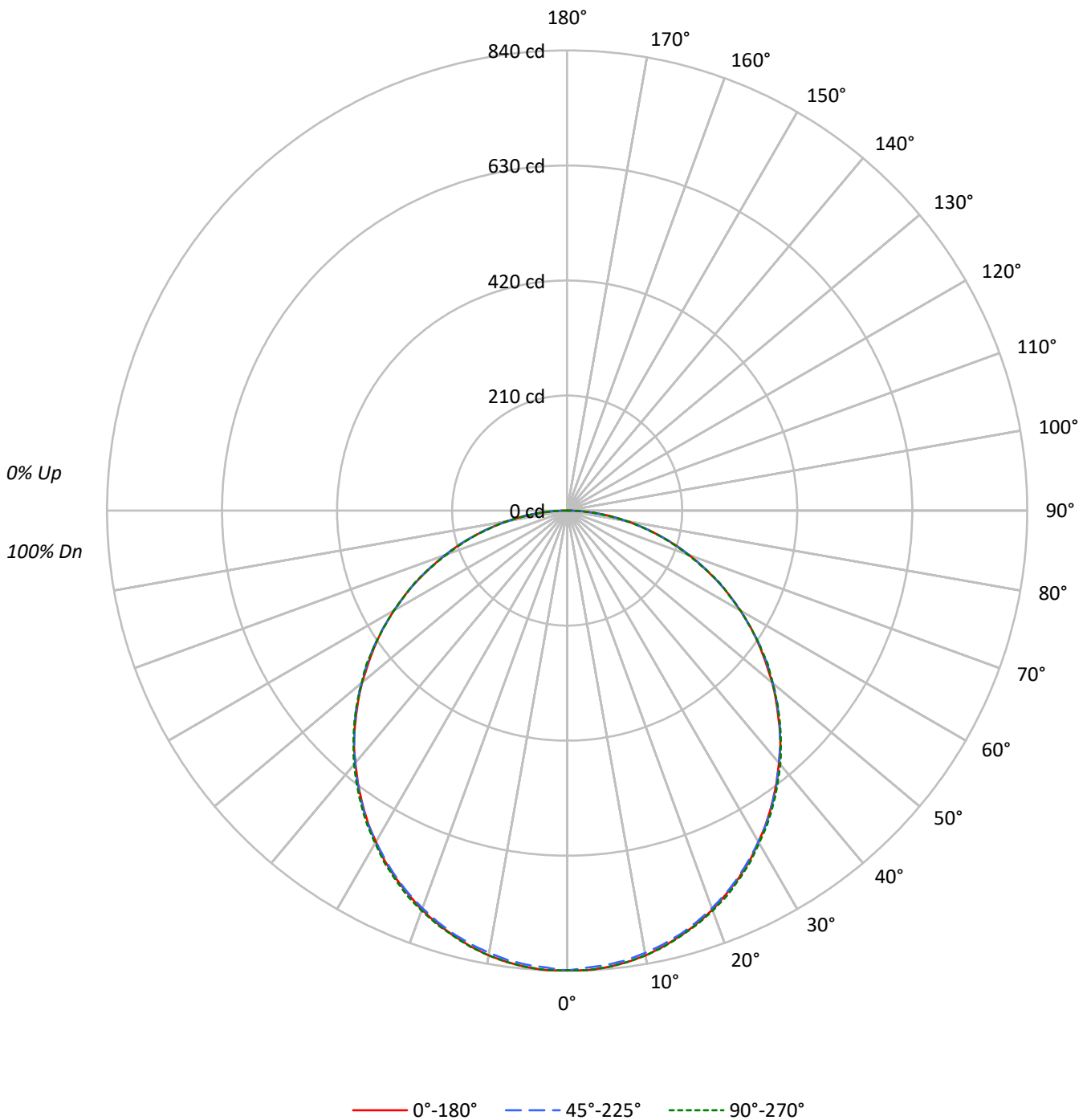
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2258	2258	2258
5°	2260	2249	2260
10°	2253	2240	2253
15°	2237	2229	2239
20°	2220	2212	2225
25°	2198	2193	2205
30°	2169	2169	2178
35°	2142	2144	2154
40°	2112	2115	2126
45°	2081	2087	2090
50°	2046	2052	2049
55°	2005	2016	2012
60°	1965	1965	1965
65°	1920	1920	1929
70°	1859	1859	1840
75°	1794	1786	1778
80°	1714	1702	1689
85°	1609	1590	1541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	3.3
10°-20°	226.5	9.4
20°-30°	341.3	14.2
30°-40°	409.0	17.0
40°-50°	422.9	17.6
50°-60°	383.5	16.0
60°-70°	298.0	12.4
70°-80°	182.0	7.6
80°-90°	57.0	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°	647.1	27.0
0°-40°	1056.1	44.0
0°-60°	1862.6	77.6
0°-90°	2399.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2399.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	837	836	832	836	837	79
15°	803	803	800	804	804	227
25°	740	740	739	743	743	341
35°	652	653	653	656	656	408
45°	547	548	548	549	549	422
55°	427	429	430	430	429	382
65°	302	302	302	300	303	298
75°	172	172	172	171	171	182
85°	52	51	52	50	50	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	839.2	839.2	839.2	839.2	839.2
2.5°	839.9	839.2	835.3	839.2	839.9
5°	836.8	836.1	832.4	836.1	836.8
7.5°	831.6	831.6	827.7	831.6	831.6
10°	824.6	823.8	819.9	823.8	824.6
12.5°	814.7	814.7	810.8	814.7	815.5
15°	803.0	803.0	800.1	803.8	803.8
17.5°	790.0	790.8	787.1	791.6	791.6
20°	775.4	774.7	772.5	776.2	777.0
22.5°	757.9	758.7	756.4	760.9	761.6
25°	740.3	740.3	738.7	743.4	742.6
27.5°	721.0	721.0	718.7	722.6	723.4
30°	698.1	698.9	698.1	701.8	701.0
32.5°	676.5	677.3	677.3	678.9	679.6
35°	652.1	652.8	652.8	655.7	655.7
37.5°	627.4	627.4	628.2	630.5	630.5
40°	601.3	602.1	602.1	604.5	605.2
42.5°	576.1	574.5	575.3	577.6	577.6
45°	546.9	547.7	548.5	549.3	549.3
47.5°	517.8	519.4	520.1	520.9	520.1
50°	488.7	490.2	490.2	489.4	489.4
52.5°	457.2	461.1	460.3	460.3	461.8
55°	427.3	428.8	429.6	429.6	428.8
57.5°	397.3	398.9	397.3	398.1	396.6
60°	365.1	365.9	365.1	365.1	365.1
62.5°	333.6	334.4	332.8	332.8	332.8
65°	301.5	301.5	301.5	300.0	302.9
67.5°	267.7	269.3	269.3	270.1	267.0
70°	236.3	237.0	236.3	235.5	233.9
72.5°	204.8	205.6	206.3	203.2	202.5
75°	172.5	172.5	171.8	171.0	171.0
77.5°	141.1	141.1	141.1	139.7	139.7
80°	110.6	111.1	109.8	109.8	109.0
82.5°	80.6	80.6	80.6	79.9	78.3
85°	52.1	50.7	51.5	49.9	49.9
87.5°	23.7	23.7	23.7	22.1	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)