

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: P476148

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476148
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-FGW080-UNV-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2834.9 lumens
Efficiency: N/A
Efficacy: 113.4 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

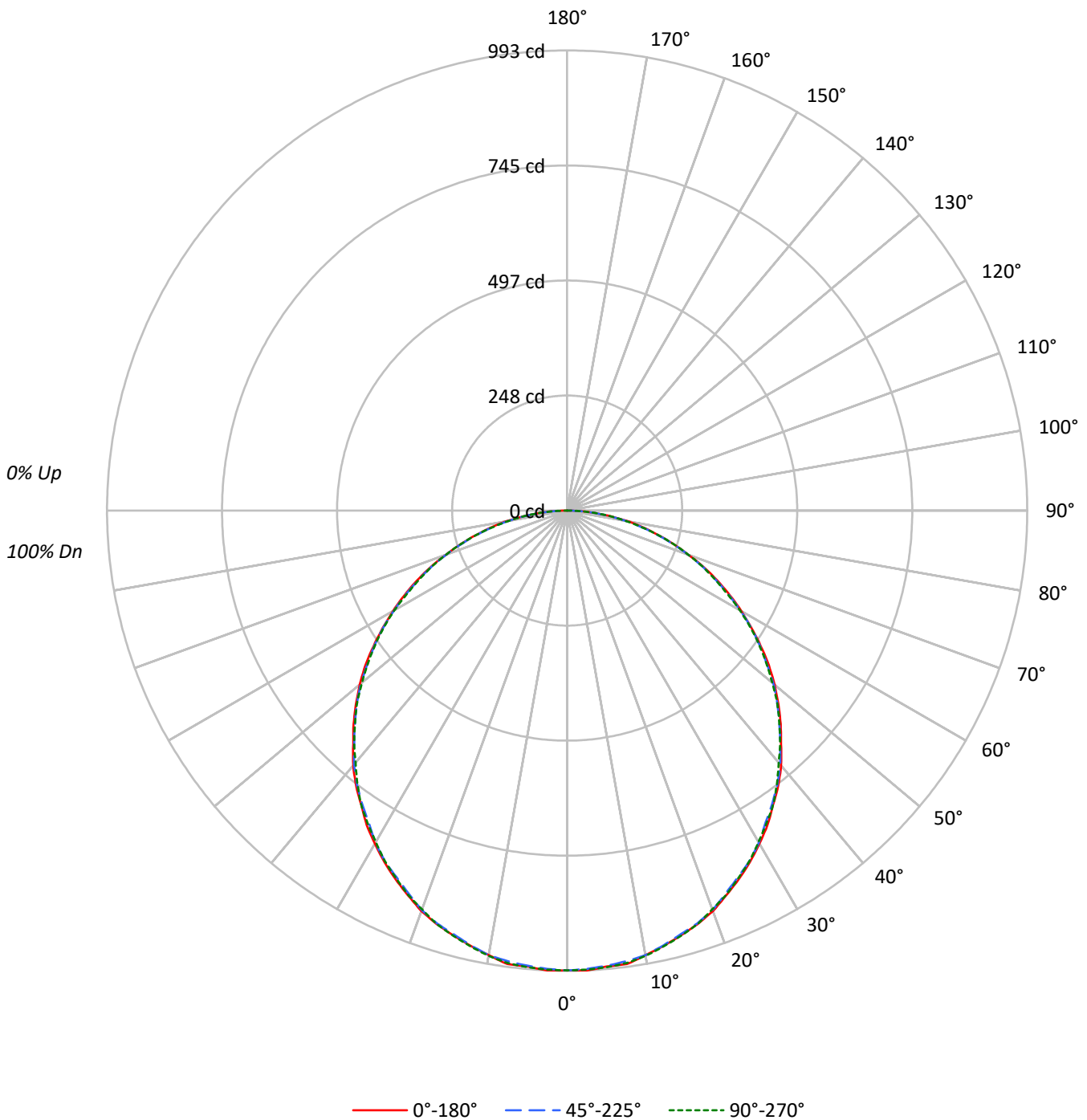
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2670	2670	2670
5°	2667	2663	2672
10°	2661	2661	2666
15°	2644	2637	2646
20°	2634	2627	2622
25°	2605	2590	2597
30°	2579	2571	2566
35°	2546	2535	2546
40°	2524	2512	2494
45°	2481	2465	2465
50°	2446	2432	2418
55°	2394	2379	2375
60°	2338	2325	2316
65°	2279	2252	2241
70°	2188	2181	2188
75°	2112	2086	2103
80°	2089	1985	1973
85°	1853	1800	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.3
10°-20°	267.8	9.4
20°-30°	403.3	14.2
30°-40°	484.0	17.1
40°-50°	500.8	17.7
50°-60°	453.8	16.0
60°-70°	351.7	12.4
70°-80°	213.5	7.5
80°-90°	66.1	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°	765.0	27.0
0°-40°	1249.0	44.1
0°-60°	2203.5	77.7
0°-90°	2834.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2834.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	987	987	986	988	989	94
15°	949	949	946	951	950	268
25°	877	876	872	876	875	404
35°	775	775	772	773	775	486
45°	652	651	648	648	648	503
55°	510	510	507	506	506	456
65°	358	358	354	355	352	354
75°	203	202	201	201	202	216
85°	60	59	58	58	59	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.3	992.3	992.3	992.3	992.3
2.5°	993.2	989.0	989.8	991.5	991.5
5°	987.3	987.3	985.7	988.2	989.0
7.5°	987.3	983.2	980.7	983.2	984.8
10°	974.0	972.3	974.0	973.2	975.7
12.5°	962.3	960.7	960.7	963.2	963.2
15°	949.0	949.0	946.5	950.7	949.8
17.5°	935.7	935.7	934.0	934.0	935.7
20°	919.8	915.7	917.3	916.5	915.7
22.5°	898.2	895.7	894.0	896.5	897.3
25°	877.3	875.7	872.3	875.7	874.8
27.5°	854.8	853.2	852.3	850.7	852.3
30°	829.9	828.2	827.4	825.7	825.7
32.5°	804.9	801.5	797.4	801.5	800.7
35°	775.1	775.1	771.7	772.6	775.1
37.5°	748.4	746.7	745.1	742.6	743.4
40°	718.4	715.9	715.1	713.4	710.1
42.5°	683.4	683.4	680.1	680.9	680.1
45°	651.8	650.9	647.6	647.6	647.6
47.5°	618.4	617.6	615.1	613.4	615.1
50°	584.3	580.9	580.9	578.4	577.6
52.5°	548.7	546.2	542.8	543.7	542.0
55°	510.3	509.5	507.0	506.2	506.2
57.5°	472.0	472.8	471.2	467.8	468.7
60°	434.5	433.7	432.0	430.3	430.3
62.5°	396.2	396.2	392.8	392.8	389.5
65°	357.9	357.9	353.7	355.4	352.0
67.5°	319.7	318.9	316.4	315.6	316.4
70°	278.1	278.9	277.2	277.2	278.1
72.5°	240.6	239.7	238.9	238.9	240.6
75°	203.1	202.3	200.6	200.6	202.3
77.5°	168.9	164.8	163.9	165.6	163.1
80°	134.8	128.9	128.1	127.3	127.3
82.5°	95.0	92.5	93.3	92.5	94.1
85°	60.0	59.2	58.3	58.3	59.2
87.5°	28.3	26.7	26.7	25.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)