

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: P475929

Luminaire Tested: **22GR-LD5-20-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475929
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-F125-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1973.4 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

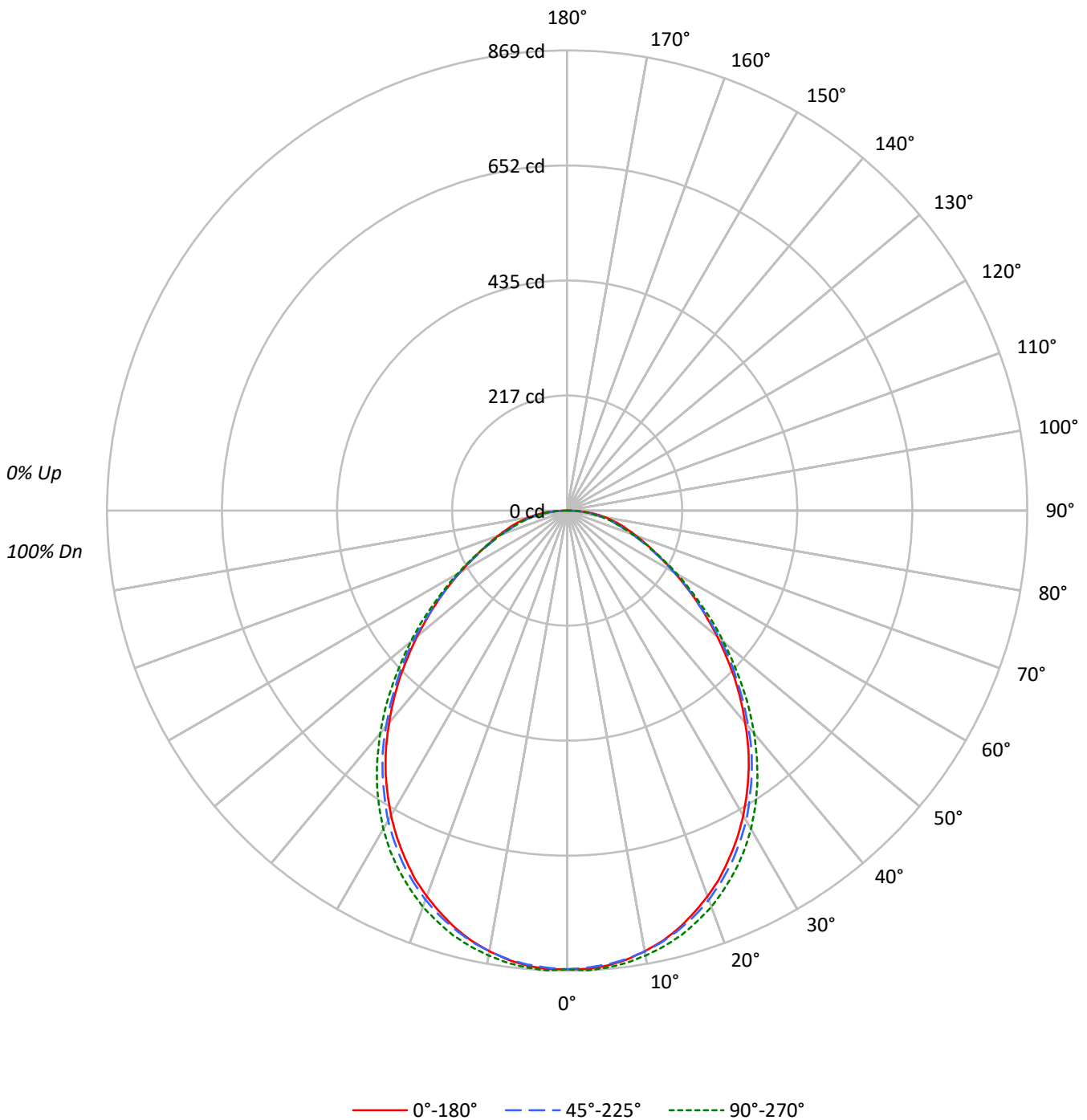
Input Watts (W): 15.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65					62				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56					54				
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50					48				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2331	2331	2331
5°	2330	2324	2340
10°	2309	2310	2331
15°	2273	2281	2314
20°	2220	2240	2280
25°	2151	2181	2228
30°	2066	2101	2157
35°	1964	1996	2058
40°	1837	1867	1929
45°	1701	1727	1777
50°	1549	1574	1614
55°	1399	1403	1444
60°	1255	1259	1289
65°	1143	1119	1145
70°	1087	1027	1045
75°	1095	990	995
80°	1136	1001	993
85°	1244	1059	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	4.1
10°-20°	231.2	11.7
20°-30°	338.4	17.1
30°-40°	380.5	19.3
40°-50°	350.9	17.8
50°-60°	270.4	13.7
60°-70°	178.5	9.0
70°-80°	103.9	5.3
80°-90°	37.8	1.9
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°	651.5	33.0
0°-40°	1031.9	52.3
0°-60°	1653.3	83.8
0°-90°	1973.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1973.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	863	861	860	864	866	82
15°	816	816	819	826	831	230
25°	724	728	734	744	750	333
35°	598	601	608	620	626	373
45°	447	447	454	463	467	344
55°	298	298	299	304	308	267
65°	180	179	176	177	180	180
75°	105	101	95	93	96	111
85°	40	40	34	32	32	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.3	866.3	866.3	866.3	866.3
2.5°	866.3	864.5	864.0	867.3	869.1
5°	862.7	860.8	860.4	864.5	866.3
7.5°	855.4	853.9	854.4	859.0	861.3
10°	844.9	844.4	845.3	850.3	853.1
12.5°	832.5	832.0	833.8	839.3	843.0
15°	816.0	816.0	818.7	826.1	830.7
17.5°	796.3	797.6	801.7	809.1	814.1
20°	775.2	776.6	782.1	790.3	796.3
22.5°	751.8	753.8	759.2	769.3	774.3
25°	724.4	728.1	734.5	744.5	750.5
27.5°	696.0	700.1	706.0	718.5	724.0
30°	664.8	667.6	676.3	687.7	694.2
32.5°	631.9	634.7	641.9	655.7	661.2
35°	598.0	600.7	607.7	620.0	626.4
37.5°	561.4	563.7	571.9	581.5	588.4
40°	523.0	526.1	531.6	543.1	549.0
42.5°	485.4	486.8	492.7	504.2	508.7
45°	446.9	447.4	453.8	462.9	467.0
47.5°	407.0	408.0	415.8	421.2	425.3
50°	370.0	370.5	375.9	381.0	385.6
52.5°	332.9	332.9	335.7	341.1	347.1
55°	298.1	297.6	299.0	304.1	307.7
57.5°	265.2	264.7	266.5	269.7	272.5
60°	233.1	232.1	233.9	235.9	239.5
62.5°	204.7	205.6	203.3	206.1	208.9
65°	179.5	178.6	175.8	177.2	179.9
67.5°	158.0	156.6	152.0	152.9	156.2
70°	138.2	135.6	130.5	130.5	132.8
72.5°	120.4	117.6	111.2	111.7	112.7
75°	105.3	100.8	95.2	93.4	95.7
77.5°	88.8	85.2	80.1	78.7	79.7
80°	73.3	70.5	64.6	62.8	64.1
82.5°	58.1	55.8	48.9	47.6	48.1
85°	40.3	39.9	34.3	31.6	32.5
87.5°	21.6	21.9	17.8	16.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)