

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: P476025

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476025
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1914.2 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

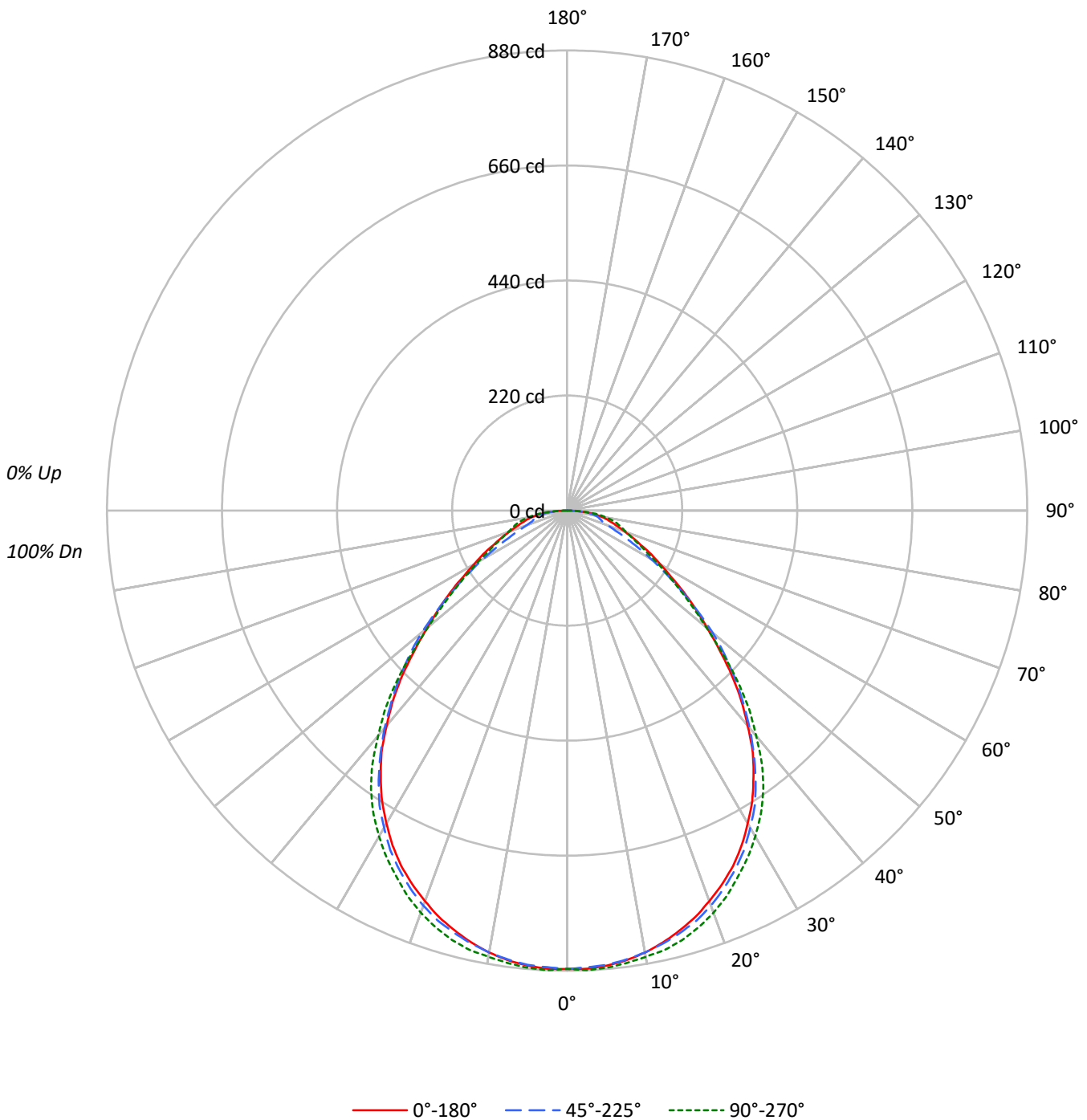
Input Watts (W): 15.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2359	2359	2359
5°	2360	2356	2370
10°	2345	2344	2367
15°	2316	2328	2369
20°	2276	2302	2343
25°	2227	2252	2293
30°	2147	2176	2235
35°	2041	2065	2148
40°	1887	1907	1975
45°	1695	1725	1753
50°	1466	1518	1451
55°	1279	1245	1229
60°	1108	997	1065
65°	990	783	956
70°	918	648	943
75°	917	685	1047
80°	1015	862	1179
85°	1059	936	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	4.3
10°-20°	236.3	12.3
20°-30°	349.4	18.3
30°-40°	394.3	20.6
40°-50°	347.6	18.2
50°-60°	238.5	12.5
60°-70°	140.7	7.4
70°-80°	87.8	4.6
80°-90°	36.6	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°	668.7	34.9
0°-40°	1063.0	55.5
0°-60°	1649.1	86.2
0°-90°	1914.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1914.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	874	872	872	875	878	83
15°	831	832	836	846	850	234
25°	750	753	759	768	772	344
35°	621	627	628	644	654	387
45°	445	448	453	456	461	342
55°	273	266	265	257	262	244
65°	156	137	123	142	150	157
75°	88	79	66	92	101	95
85°	34	32	30	40	43	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.6	876.6	876.6	876.6	876.6
2.5°	877.1	874.8	874.0	877.5	879.8
5°	873.5	871.8	872.2	875.3	877.5
7.5°	867.3	866.0	866.0	870.4	872.6
10°	858.3	858.0	858.0	863.3	866.4
12.5°	846.0	846.3	848.1	855.3	860.6
15°	831.2	832.1	835.7	846.0	850.3
17.5°	815.2	815.2	822.3	830.3	835.7
20°	794.7	796.0	804.0	813.0	818.3
22.5°	773.7	775.9	782.7	792.9	797.7
25°	750.1	752.8	758.6	768.4	772.4
27.5°	722.5	726.1	732.3	739.4	747.9
30°	690.8	696.3	700.3	710.1	719.4
32.5°	658.8	663.7	668.2	678.5	689.1
35°	621.4	626.7	628.5	643.7	653.9
37.5°	583.1	585.3	586.2	601.4	612.5
40°	537.3	541.6	543.0	555.1	562.1
42.5°	493.1	494.9	497.5	506.5	515.0
45°	445.4	447.7	453.4	456.2	460.6
47.5°	395.6	402.3	408.9	400.4	400.9
50°	350.1	355.5	362.6	346.5	346.5
52.5°	309.5	312.2	312.7	299.4	302.0
55°	272.6	265.9	265.4	256.6	261.9
57.5°	235.6	226.8	223.6	220.9	227.1
60°	205.8	189.8	185.3	189.3	197.8
62.5°	181.3	160.8	152.3	162.5	170.2
65°	155.5	136.7	122.9	142.2	150.2
67.5°	135.4	117.6	99.8	126.9	132.7
70°	116.7	102.9	82.4	115.4	119.9
72.5°	101.6	90.9	71.3	104.2	109.6
75°	88.2	79.3	65.9	92.2	100.7
77.5°	77.6	67.7	61.5	79.7	89.9
80°	65.5	55.6	55.6	66.8	76.1
82.5°	51.6	43.6	45.0	54.3	61.1
85°	34.3	32.1	30.3	39.6	43.3
87.5°	17.3	17.8	16.0	20.5	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)