

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: P292263

Luminaire Tested: **22GR-LD5-20-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1916.0 lumens
Efficiency: N/A
Efficacy: 121.2 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

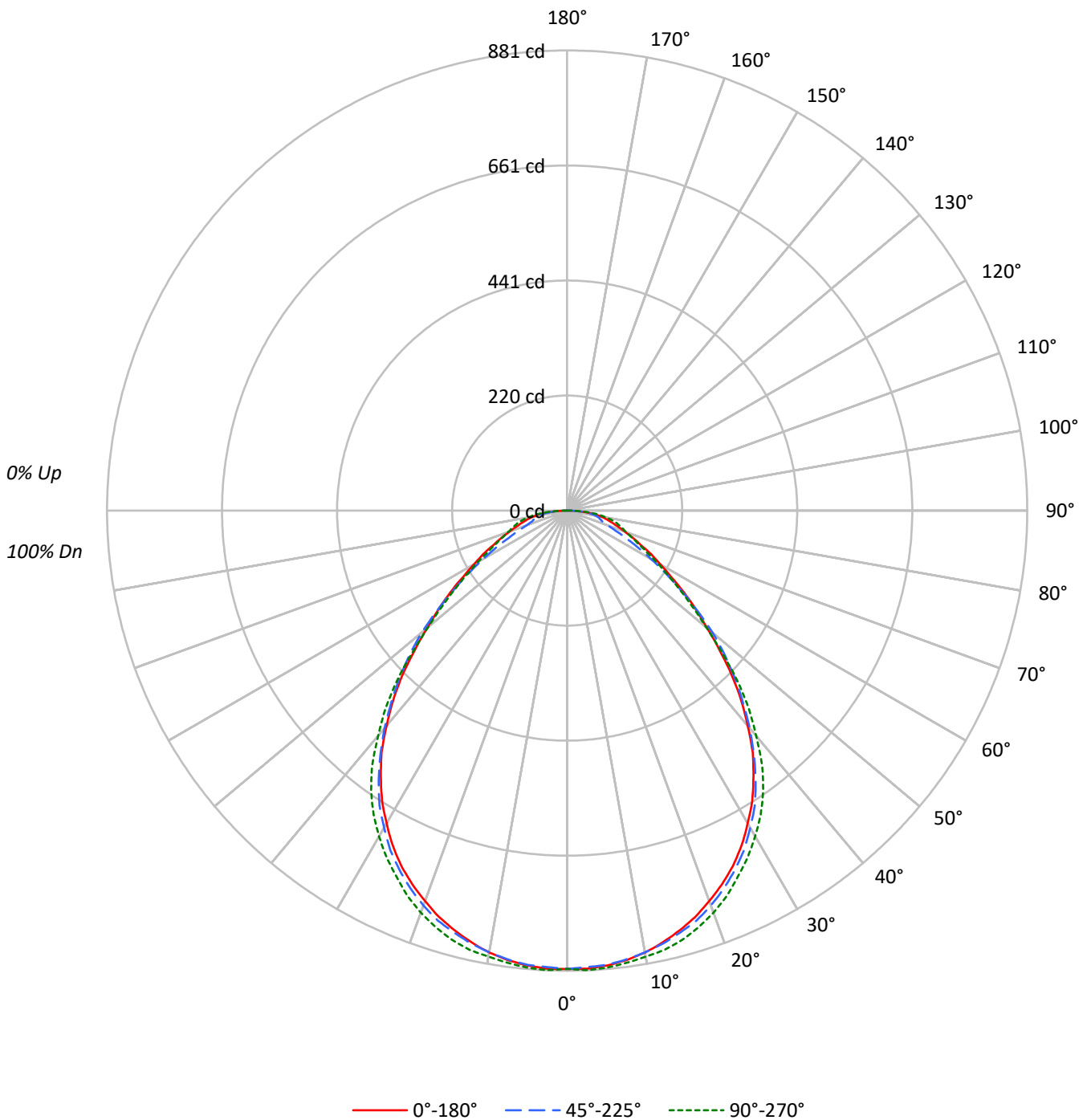
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2361	2361	2361
5°	2362	2358	2373
10°	2348	2346	2370
15°	2318	2330	2371
20°	2278	2305	2346
25°	2229	2254	2295
30°	2149	2178	2238
35°	2043	2067	2150
40°	1889	1909	1977
45°	1697	1727	1754
50°	1467	1519	1452
55°	1280	1247	1230
60°	1109	998	1066
65°	991	784	957
70°	919	649	943
75°	918	686	1048
80°	1015	863	1181
85°	1059	936	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	4.3
10°-20°	236.5	12.3
20°-30°	349.8	18.3
30°-40°	394.7	20.6
40°-50°	347.9	18.2
50°-60°	238.7	12.5
60°-70°	140.9	7.4
70°-80°	87.9	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°	669.3	34.9
0°-40°	1064.0	55.5
0°-60°	1650.6	86.1
0°-90°	1916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	874	873	873	876	878	83
15°	832	833	836	847	851	235
25°	751	754	759	769	773	345
35°	622	627	629	644	654	388
45°	446	448	454	457	461	343
55°	273	266	266	257	262	245
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°	877.5	877.5	877.5	877.5	877.5
2.5°	877.9	875.7	874.8	878.4	880.6
5°	874.3	872.6	873.0	876.1	878.4
7.5°	868.1	866.8	866.8	871.2	873.4
10°	859.2	858.7	858.7	864.1	867.2
12.5°	846.7	847.1	848.9	856.1	861.4
15°	832.0	832.9	836.4	846.7	851.2
17.5°	815.9	815.9	823.1	831.1	836.4
20°	795.4	796.8	804.8	813.7	819.1
22.5°	774.5	776.7	783.4	793.6	798.5
25°	750.8	753.5	759.3	769.1	773.1
27.5°	723.2	726.8	733.0	740.1	748.6
30°	691.5	696.9	700.9	710.7	720.1
32.5°	659.4	664.3	668.8	679.0	689.8
35°	622.0	627.3	629.1	644.3	654.5
37.5°	583.6	585.9	586.8	601.9	613.1
40°	537.7	542.2	543.5	555.5	562.7
42.5°	493.6	495.4	498.0	506.9	515.4
45°	445.9	448.1	453.9	456.6	461.0
47.5°	395.9	402.6	409.3	400.8	401.3
50°	350.4	355.8	362.9	346.9	346.9
52.5°	309.9	312.6	313.0	299.6	302.3
55°	272.9	266.2	265.7	256.8	262.2
57.5°	235.9	226.9	223.8	221.1	227.4
60°	206.0	189.9	185.5	189.5	198.0
62.5°	181.5	161.0	152.5	162.7	170.3
65°	155.6	136.9	123.1	142.2	150.3
67.5°	135.5	117.7	99.9	127.1	132.9
70°	116.8	103.0	82.5	115.5	119.9
72.5°	101.7	91.0	71.3	104.3	109.7
75°	88.3	79.4	66.0	92.3	100.8
77.5°	77.6	67.8	61.5	79.8	90.1
80°	65.5	55.7	55.7	66.9	76.2
82.5°	51.7	43.7	45.0	54.4	61.1
85°	34.3	32.1	30.3	39.7	43.2
87.5°	17.4	17.8	16.1	20.5	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)