

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: P291881

Luminaire Tested: **22GR-LD5-24-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F1-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2290.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

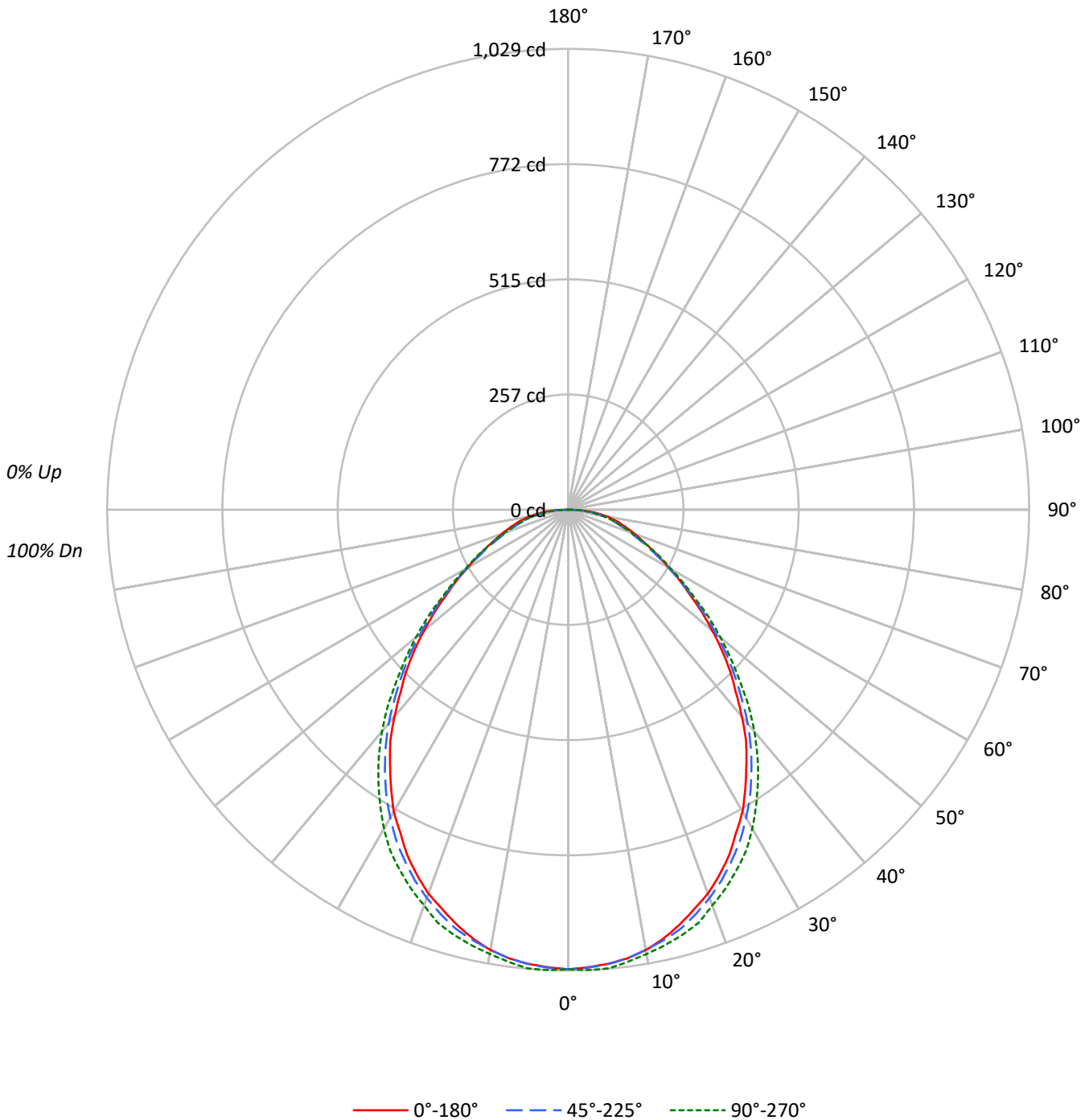
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291881

CATALOG NUMBER: 22GR-LD5-24-F1-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P291881

CATALOG NUMBER: 22GR-LD5-24-F1-UNV-L92765-W2A1-U-5500K

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	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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85																												
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73																												
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																												
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55																												
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48																												
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43																												
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38																												
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34																												
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31																												
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2761	2761	2761
5°	2749	2752	2778
10°	2728	2726	2752
15°	2673	2699	2739
20°	2612	2642	2693
25°	2525	2566	2638
30°	2419	2468	2554
35°	2277	2343	2426
40°	2119	2191	2271
45°	1946	2002	2064
50°	1755	1799	1856
55°	1557	1594	1621
60°	1396	1398	1427
65°	1286	1242	1286
70°	1242	1150	1183
75°	1263	1127	1149
80°	1361	1182	1182
85°	1510	1250	1235



TEST NUMBER: P291881

CATALOG NUMBER: 22GR-LD5-24-F1-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	4.2
10°-20°	273.0	11.9
20°-30°	398.5	17.4
30°-40°	446.1	19.5
40°-50°	406.0	17.7
50°-60°	305.6	13.3
60°-70°	199.4	8.7
70°-80°	119.6	5.2
80°-90°	44.9	2.0
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°	768.3	33.6
0°-40°	1214.5	53.0
0°-60°	1926.1	84.1
0°-90°	2290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1018	1016	1019	1022	1028	97
15°	959	960	969	977	983	270
25°	850	853	864	880	888	390
35°	693	700	713	730	738	433
45°	511	516	526	537	542	394
55°	332	337	340	344	346	300
65°	202	200	195	198	202	202
75°	122	117	108	109	110	129
85°	49	47	40	38	40	50
90°	0	0	0	0	0	



TEST NUMBER: P291881

CATALOG NUMBER: 22GR-LD5-24-F1-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.2	1026.2	1026.2	1026.2	1026.2
2.5°	1022.5	1022.0	1023.6	1026.2	1028.8
5°	1017.8	1016.2	1018.8	1022.5	1028.3
7.5°	1010.4	1010.4	1010.4	1017.3	1018.3
10°	998.3	999.4	997.8	1004.6	1007.3
12.5°	981.0	981.5	984.6	991.5	996.2
15°	959.4	960.5	968.9	976.8	983.1
17.5°	935.2	938.9	946.8	959.4	967.3
20°	912.1	916.3	922.6	936.3	940.5
22.5°	882.6	887.3	895.2	907.3	916.3
25°	850.5	853.1	864.2	880.0	888.4
27.5°	812.1	817.9	831.6	847.9	859.5
30°	778.5	781.6	794.2	813.2	822.1
32.5°	735.9	745.3	755.8	772.7	781.1
35°	693.2	699.6	713.2	730.1	738.5
37.5°	652.2	655.9	669.6	683.8	694.3
40°	603.3	610.1	623.8	639.1	646.4
42.5°	554.4	564.4	573.3	588.6	596.5
45°	511.3	516.5	526.0	537.0	542.3
47.5°	466.0	468.7	479.7	486.5	492.3
50°	419.2	422.4	429.7	436.6	443.4
52.5°	376.1	378.7	383.4	389.8	396.6
55°	331.9	336.6	339.8	344.5	345.6
57.5°	296.1	295.6	297.7	301.4	305.1
60°	259.3	260.4	259.8	263.5	265.1
62.5°	228.8	228.3	225.1	230.4	234.6
65°	202.0	199.9	195.1	198.3	202.0
67.5°	177.3	176.2	168.3	170.9	174.1
70°	157.8	154.1	146.2	147.8	150.4
72.5°	138.9	134.7	126.8	127.3	128.9
75°	121.5	117.3	108.4	108.9	110.5
77.5°	105.2	99.9	92.0	91.0	92.0
80°	87.8	83.1	76.3	73.1	76.3
82.5°	70.0	67.3	59.4	56.3	57.3
85°	48.9	47.3	40.5	38.4	40.0
87.5°	22.6	24.2	20.5	18.9	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)