

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: P291991

Luminaire Tested: **22GR-LD5-32-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-F125-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2957.0 lumens
Efficiency: N/A
Efficacy: 120.4 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

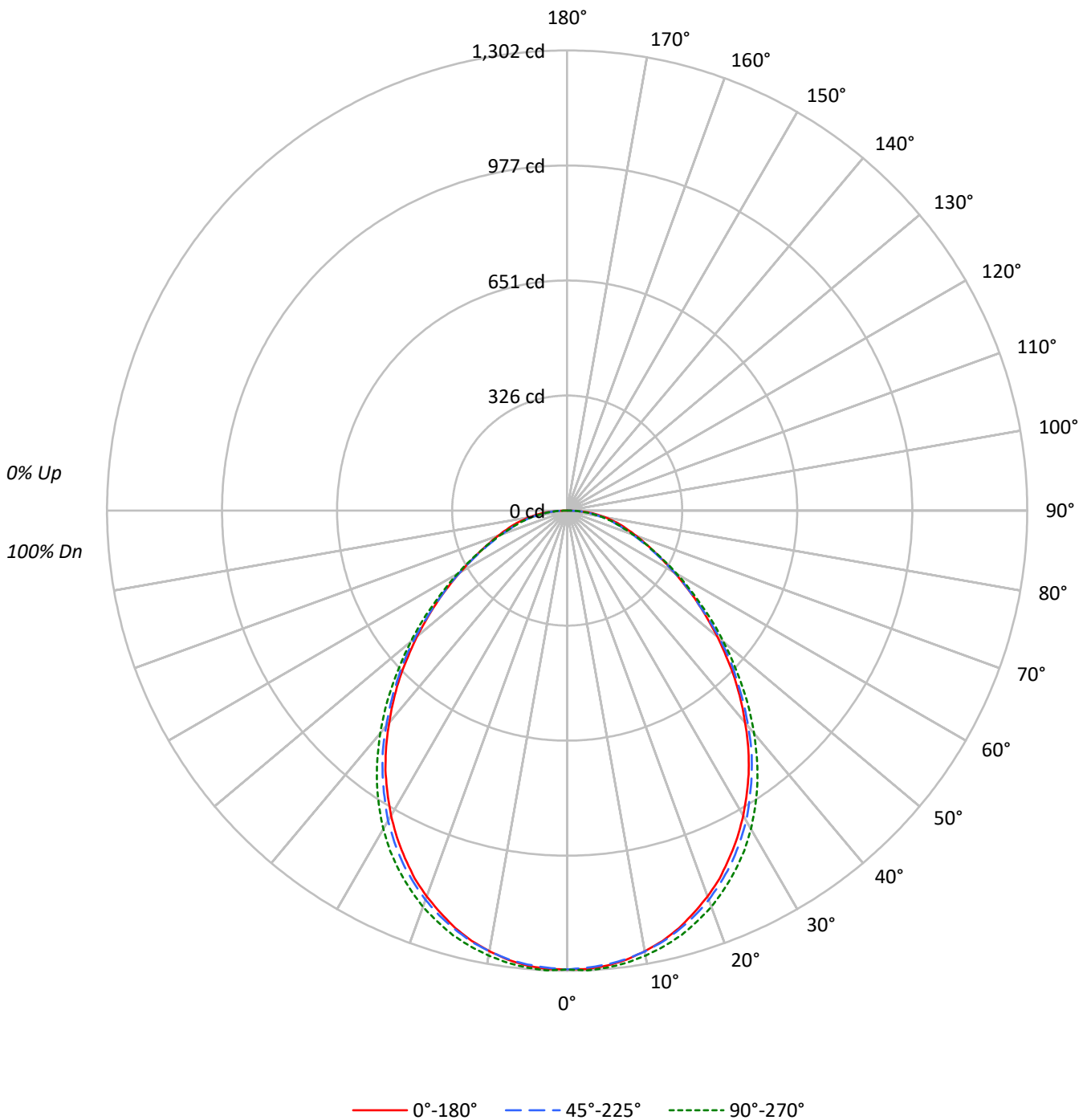
Input Watts (W): 24.552
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3493	3493	3493
5°	3492	3482	3507
10°	3459	3461	3493
15°	3406	3418	3467
20°	3326	3356	3417
25°	3223	3268	3339
30°	3095	3149	3232
35°	2944	2991	3083
40°	2752	2798	2890
45°	2549	2587	2663
50°	2321	2358	2418
55°	2096	2102	2163
60°	1879	1887	1931
65°	1713	1678	1717
70°	1630	1538	1566
75°	1641	1484	1491
80°	1702	1499	1489
85°	1865	1590	1504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	4.1
10°-20°	346.5	11.7
20°-30°	507.1	17.1
30°-40°	570.1	19.3
40°-50°	525.8	17.8
50°-60°	405.2	13.7
60°-70°	267.4	9.0
70°-80°	155.6	5.3
80°-90°	56.7	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°	976.2	33.0
0°-40°	1546.3	52.3
0°-60°	2477.3	83.8
0°-90°	2957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1293	1290	1289	1295	1298	123
15°	1223	1223	1227	1238	1245	344
25°	1085	1091	1100	1116	1124	499
35°	896	900	910	929	939	559
45°	670	670	680	694	700	516
55°	447	446	448	456	461	401
65°	269	268	264	266	270	270
75°	158	151	143	140	143	166
85°	60	60	52	47	49	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1298.1	1298.1	1298.1	1298.1	1298.1
2.5°	1298.1	1295.4	1294.7	1299.5	1302.3
5°	1292.6	1289.9	1289.2	1295.4	1298.1
7.5°	1281.7	1279.6	1280.3	1287.2	1290.6
10°	1265.9	1265.2	1266.6	1274.1	1278.2
12.5°	1247.4	1246.7	1249.4	1257.7	1263.1
15°	1222.7	1222.7	1226.8	1237.8	1244.6
17.5°	1193.2	1195.2	1201.4	1212.4	1219.9
20°	1161.6	1163.7	1171.9	1184.2	1193.2
22.5°	1126.6	1129.4	1137.6	1152.7	1160.2
25°	1085.4	1090.9	1100.5	1115.6	1124.5
27.5°	1042.9	1049.1	1058.0	1076.5	1084.8
30°	996.2	1000.4	1013.4	1030.5	1040.2
32.5°	946.8	951.0	961.9	982.5	990.8
35°	896.1	900.2	910.5	929.0	938.6
37.5°	841.2	844.6	857.0	871.4	881.7
40°	783.5	788.3	796.6	813.7	822.7
42.5°	727.3	729.3	738.3	755.4	762.3
45°	669.7	670.3	679.9	693.7	699.8
47.5°	610.0	611.3	623.0	631.2	637.4
50°	554.4	555.1	563.3	570.9	577.7
52.5°	498.8	498.8	502.9	511.2	520.1
55°	446.7	446.0	448.0	455.6	461.1
57.5°	397.3	396.6	399.3	404.1	408.2
60°	349.2	347.9	350.6	353.4	358.8
62.5°	306.7	308.1	304.6	308.8	312.9
65°	269.0	267.6	263.5	265.5	269.6
67.5°	236.7	234.7	227.8	229.2	234.0
70°	207.2	203.1	195.5	195.5	199.0
72.5°	180.4	176.3	166.7	167.4	168.8
75°	157.8	150.9	142.7	140.0	143.4
77.5°	133.1	127.6	120.1	118.0	119.4
80°	109.8	105.7	96.7	94.0	96.1
82.5°	87.1	83.7	73.4	71.4	72.0
85°	60.4	59.7	51.5	47.3	48.7
87.5°	32.2	32.9	26.8	24.0	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)