

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: P292383

Luminaire Tested: **22GR-LD5-32-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-A125-UNV-L82765-W2A1-U-2700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2943.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

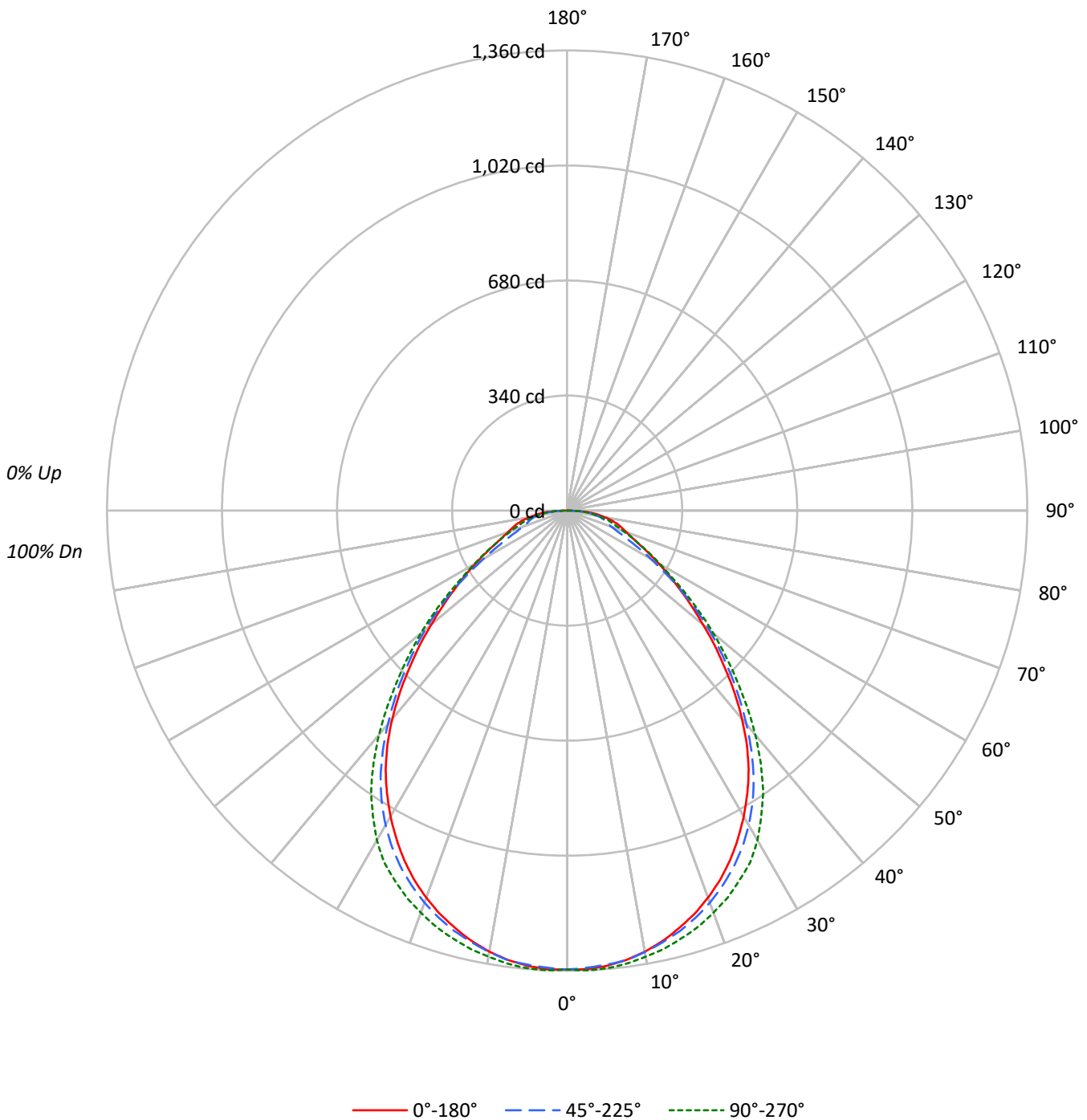
Input Watts (W): 24.552  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	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	52	46	41	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	34	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	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3651	3651	3651
5°	3648	3639	3668
10°	3617	3621	3658
15°	3560	3584	3645
20°	3486	3531	3621
25°	3384	3453	3580
30°	3243	3335	3494
35°	3073	3158	3318
40°	2825	2895	3040
45°	2509	2601	2695
50°	2192	2292	2361
55°	1906	1932	2002
60°	1676	1537	1710
65°	1490	1228	1499
70°	1463	1090	1382
75°	1598	1199	1413
80°	1754	1424	1509
85°	2096	1652	1695



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.2	4.4
10°-20°	363.6	12.4
20°-30°	536.7	18.2
30°-40°	600.6	20.4
40°-50°	527.4	17.9
50°-60°	373.2	12.7
60°-70°	217.2	7.4
70°-80°	135.4	4.6
80°-90°	60.6	2.1
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°	1028.5	34.9
0°-40°	1629.2	55.4
0°-60°	2529.8	86.0
0°-90°	2943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2943.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1350	1347	1347	1354	1358	128
15°	1278	1280	1287	1300	1308	360
25°	1140	1144	1163	1190	1206	523
35°	935	939	961	990	1010	582
45°	659	667	683	700	708	510
55°	406	414	412	419	427	367
65°	234	216	193	210	235	237
75°	154	132	115	118	136	161
85°	68	71	54	52	55	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1356.6	1356.6	1356.6	1356.6	1356.6
2.5°	1356.6	1353.8	1352.5	1357.3	1360.0
5°	1350.4	1347.0	1347.0	1353.8	1357.9
7.5°	1339.4	1336.0	1340.1	1346.3	1350.4
10°	1323.6	1322.3	1325.0	1333.2	1338.7
12.5°	1303.1	1303.7	1306.5	1319.5	1326.4
15°	1277.7	1280.4	1286.6	1300.3	1308.5
17.5°	1250.2	1252.3	1261.9	1277.7	1289.3
20°	1217.3	1221.4	1233.1	1253.0	1264.6
22.5°	1180.9	1185.7	1200.1	1224.1	1238.6
25°	1139.7	1144.5	1163.1	1190.5	1205.6
27.5°	1093.1	1100.6	1121.2	1151.4	1172.0
30°	1043.7	1049.9	1073.2	1107.5	1124.6
32.5°	990.8	998.4	1020.3	1053.3	1068.4
35°	935.3	939.4	961.3	990.2	1010.1
37.5°	872.1	874.2	894.8	921.5	939.4
40°	804.2	805.6	824.1	849.5	865.3
42.5°	733.5	734.2	754.1	773.3	787.0
45°	659.4	667.0	683.4	699.9	708.1
47.5°	592.9	598.3	613.4	627.9	635.4
50°	523.6	537.3	547.6	555.1	564.0
52.5°	463.9	475.5	478.3	487.2	494.7
55°	406.2	414.5	411.7	419.3	426.8
57.5°	357.5	353.4	344.5	357.5	367.1
60°	311.5	300.5	285.5	303.3	317.7
62.5°	270.4	252.5	234.0	251.8	275.8
65°	234.0	215.5	192.8	210.0	235.4
67.5°	206.5	187.3	160.6	177.7	203.1
70°	186.0	166.1	138.6	153.0	175.7
72.5°	169.5	148.2	124.2	133.8	153.0
75°	153.7	132.4	115.3	118.0	135.9
77.5°	135.2	119.4	105.7	104.3	118.0
80°	113.2	108.4	91.9	89.9	97.4
82.5°	93.3	91.3	75.5	73.4	76.2
85°	67.9	70.7	53.5	52.1	54.9
87.5°	35.7	39.1	28.1	29.5	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)