

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: P292044

Luminaire Tested: **22GR-LD5-32-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292044  
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-L93050-W2A1-U-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2959.0 lumens  
Efficiency: N/A  
Efficacy: 117.4 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

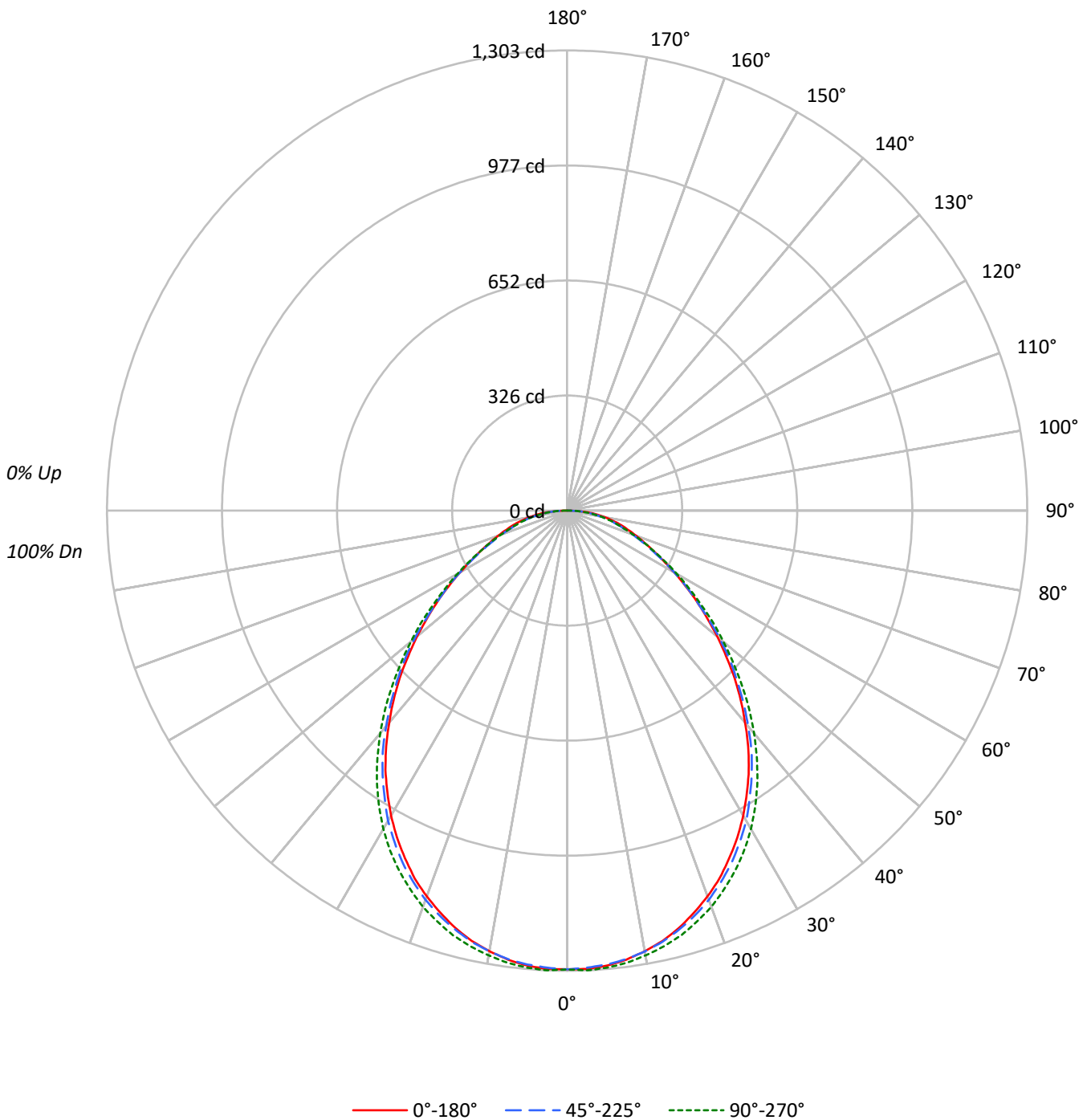
Input Watts (W): 25.203  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

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

	0°	45°	90°
0°	3496	3496	3496
5°	3494	3485	3509
10°	3461	3463	3495
15°	3409	3420	3470
20°	3329	3358	3419
25°	3225	3270	3341
30°	3098	3151	3234
35°	2946	2993	3085
40°	2754	2800	2892
45°	2550	2589	2665
50°	2323	2360	2420
55°	2097	2103	2165
60°	1881	1888	1933
65°	1713	1678	1718
70°	1631	1540	1566
75°	1642	1485	1492
80°	1703	1500	1489
85°	1865	1590	1504



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.7	4.1
10°-20°	346.7	11.7
20°-30°	507.4	17.1
30°-40°	570.5	19.3
40°-50°	526.1	17.8
50°-60°	405.5	13.7
60°-70°	267.6	9.0
70°-80°	155.7	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°	976.8	33.0
0°-40°	1547.3	52.3
0°-60°	2478.9	83.8
0°-90°	2959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2959.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1294	1291	1290	1296	1299	123
15°	1224	1224	1228	1239	1246	344
25°	1086	1092	1101	1116	1125	500
35°	897	901	911	930	939	559
45°	670	671	680	694	700	516
55°	447	446	448	456	461	401
65°	269	268	264	266	270	270
75°	158	151	143	140	144	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°	1299.0	1299.0	1299.0	1299.0	1299.0
2.5°	1299.0	1296.3	1295.6	1300.4	1303.1
5°	1293.5	1290.8	1290.1	1296.3	1299.0
7.5°	1282.5	1280.5	1281.2	1288.0	1291.5
10°	1266.7	1266.1	1267.4	1275.0	1279.1
12.5°	1248.2	1247.5	1250.3	1258.5	1264.0
15°	1223.5	1223.5	1227.6	1238.6	1245.5
17.5°	1194.0	1196.0	1202.2	1213.2	1220.7
20°	1162.4	1164.4	1172.7	1185.0	1194.0
22.5°	1127.4	1130.1	1138.4	1153.5	1161.0
25°	1086.2	1091.7	1101.3	1116.4	1125.3
27.5°	1043.6	1049.8	1058.7	1077.2	1085.5
30°	996.9	1001.0	1014.1	1031.2	1040.9
32.5°	947.5	951.6	962.6	983.2	991.4
35°	896.7	900.8	911.1	929.6	939.2
37.5°	841.7	845.2	857.5	872.0	882.3
40°	784.1	788.9	797.1	814.3	823.2
42.5°	727.8	729.8	738.8	755.9	762.8
45°	670.1	670.8	680.4	694.1	700.3
47.5°	610.4	611.7	623.4	631.7	637.8
50°	554.8	555.4	563.7	571.2	578.1
52.5°	499.1	499.1	503.3	511.5	520.4
55°	447.0	446.3	448.3	455.9	461.4
57.5°	397.5	396.8	399.6	404.4	408.5
60°	349.5	348.1	350.8	353.6	359.1
62.5°	306.9	308.3	304.8	309.0	313.1
65°	269.1	267.8	263.6	265.7	269.8
67.5°	236.9	234.8	227.9	229.3	234.1
70°	207.3	203.2	195.7	195.7	199.1
72.5°	180.6	176.5	166.8	167.5	168.9
75°	157.9	151.0	142.8	140.1	143.5
77.5°	133.2	127.7	120.2	118.1	119.5
80°	109.9	105.7	96.8	94.1	96.1
82.5°	87.2	83.8	73.5	71.4	72.1
85°	60.4	59.7	51.5	47.4	48.7
87.5°	32.3	33.0	26.8	24.0	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)