

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: P475956

Luminaire Tested: **22GR-LD5-32-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475956  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-F125-UNV-L840-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F125 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3335.1 lumens  
Efficiency: N/A  
Efficacy: 133.4 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

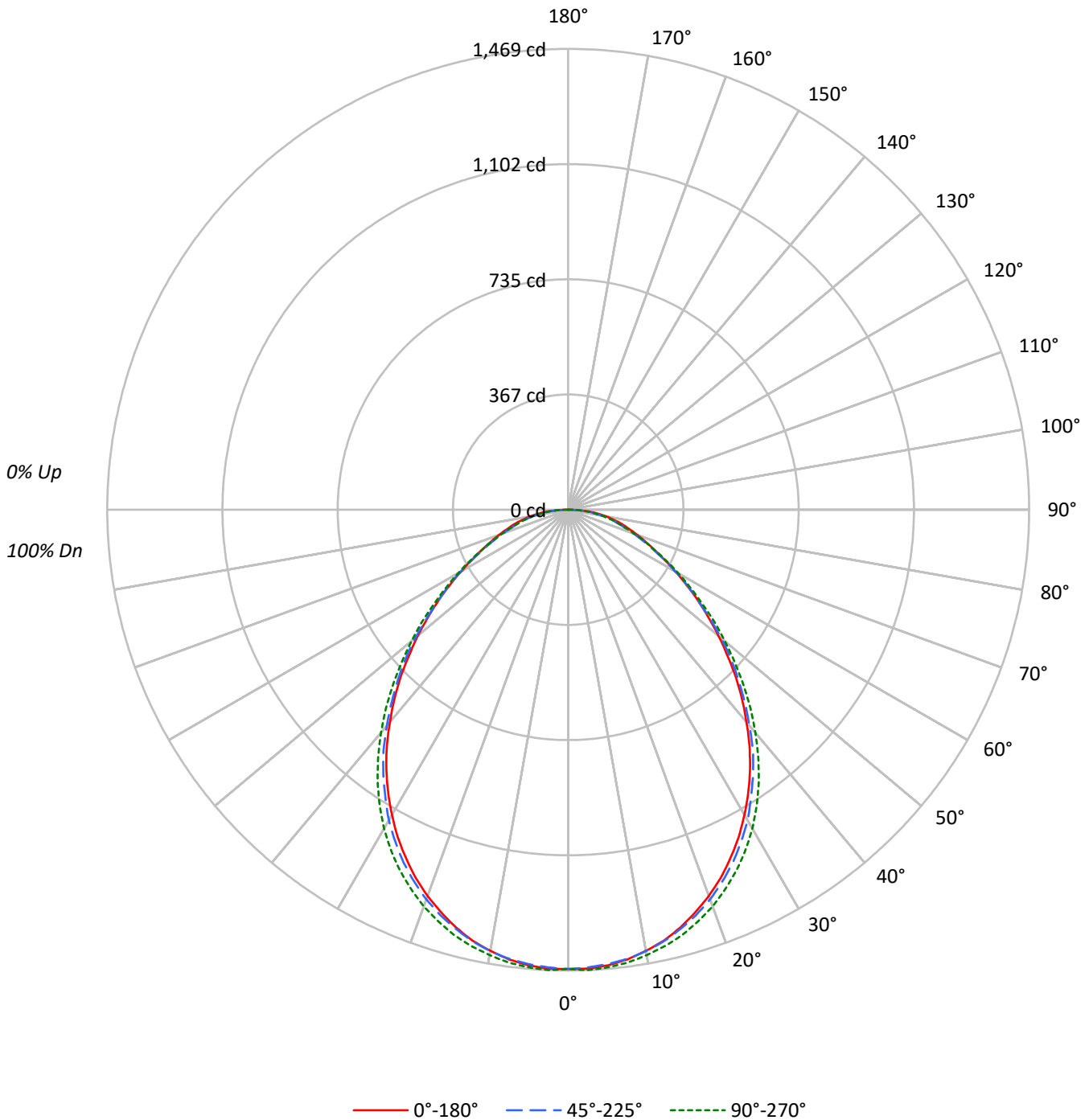
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3940	3940	3940
5°	3938	3928	3955
10°	3901	3904	3940
15°	3842	3855	3911
20°	3752	3785	3854
25°	3635	3686	3766
30°	3491	3552	3645
35°	3320	3374	3478
40°	3105	3156	3260
45°	2874	2919	3004
50°	2618	2660	2728
55°	2364	2371	2440
60°	2120	2127	2179
65°	1932	1892	1936
70°	1838	1735	1766
75°	1850	1673	1681
80°	1920	1691	1678
85°	2106	1788	1695



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.3	4.1
10°-20°	390.8	11.7
20°-30°	571.9	17.1
30°-40°	643.0	19.3
40°-50°	593.0	17.8
50°-60°	457.1	13.7
60°-70°	301.6	9.0
70°-80°	175.5	5.3
80°-90°	63.9	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°	1101.0	33.0
0°-40°	1744.1	52.3
0°-60°	2794.1	83.8
0°-90°	3335.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3335.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1458	1455	1454	1461	1464	138
15°	1379	1379	1384	1396	1404	388
25°	1224	1230	1241	1258	1268	563
35°	1011	1015	1027	1048	1059	630
45°	755	756	767	782	789	582
55°	504	503	505	514	520	452
65°	303	302	297	300	304	304
75°	178	170	161	158	162	187
85°	68	67	58	53	55	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1464.1	1464.1	1464.1	1464.1	1464.1
2.5°	1464.1	1461.0	1460.2	1465.7	1468.8
5°	1457.9	1454.9	1454.1	1461.0	1464.1
7.5°	1445.7	1443.2	1444.0	1451.8	1455.7
10°	1427.8	1427.0	1428.7	1437.1	1441.8
12.5°	1407.0	1406.1	1409.2	1418.4	1424.8
15°	1379.1	1379.1	1383.6	1396.1	1403.9
17.5°	1345.7	1348.0	1355.0	1367.4	1375.8
20°	1310.1	1312.6	1321.8	1335.7	1345.7
22.5°	1270.6	1273.9	1283.1	1300.1	1308.7
25°	1224.3	1230.5	1241.3	1258.3	1268.4
27.5°	1176.2	1183.2	1193.2	1214.3	1223.5
30°	1123.6	1128.3	1143.1	1162.3	1173.2
32.5°	1067.9	1072.6	1084.9	1108.2	1117.5
35°	1010.6	1015.3	1027.0	1047.9	1058.7
37.5°	948.8	952.6	966.6	982.7	994.4
40°	883.9	889.2	898.4	917.8	927.9
42.5°	820.4	822.6	832.7	852.1	859.7
45°	755.3	756.1	766.9	782.3	789.3
47.5°	687.9	689.6	702.7	711.9	718.8
50°	625.3	626.1	635.3	643.9	651.7
52.5°	562.6	562.6	567.3	576.5	586.6
55°	503.9	503.0	505.3	513.9	520.0
57.5°	448.2	447.4	450.4	455.7	460.5
60°	393.9	392.3	395.3	398.6	404.8
62.5°	346.0	347.4	343.6	348.3	353.0
65°	303.4	301.8	297.1	299.5	304.0
67.5°	267.0	264.7	256.9	258.4	263.9
70°	233.6	229.1	220.5	220.5	224.4
72.5°	203.5	198.8	187.9	188.8	190.4
75°	177.9	170.3	160.9	157.9	161.7
77.5°	150.1	143.9	135.3	133.1	134.7
80°	123.9	119.2	109.1	106.1	108.3
82.5°	98.3	94.4	82.7	80.5	81.3
85°	68.2	67.4	57.9	53.4	54.9
87.5°	36.4	37.1	30.1	27.0	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)