

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: P475933

Luminaire Tested: **22GR-LD5-36-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475933  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-36-F125-UNV-L830-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3554.0 lumens  
Efficiency: N/A  
Efficacy: 124.7 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

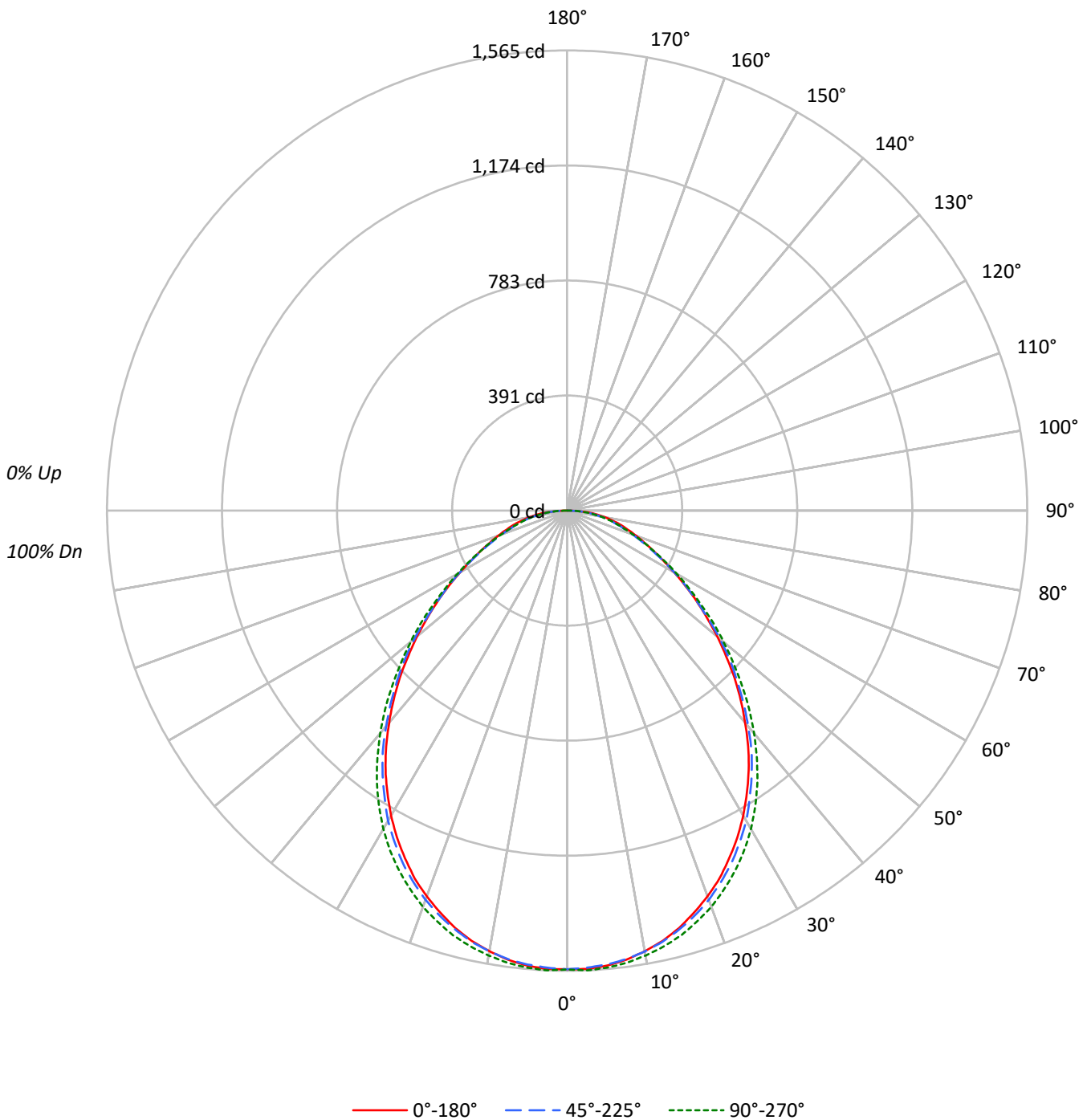
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4198	4198	4198
5°	4197	4186	4215
10°	4158	4160	4198
15°	4094	4108	4168
20°	3998	4033	4107
25°	3874	3928	4013
30°	3721	3785	3885
35°	3538	3595	3706
40°	3309	3363	3473
45°	3063	3110	3201
50°	2789	2834	2907
55°	2519	2526	2600
60°	2259	2267	2321
65°	2059	2016	2063
70°	1958	1849	1881
75°	1971	1783	1792
80°	2046	1802	1788
85°	2245	1905	1806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.4	4.1
10°-20°	416.4	11.7
20°-30°	609.5	17.1
30°-40°	685.2	19.3
40°-50°	631.9	17.8
50°-60°	487.1	13.7
60°-70°	321.4	9.0
70°-80°	187.0	5.3
80°-90°	68.1	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°	1173.3	33.0
0°-40°	1858.5	52.3
0°-60°	2977.5	83.8
0°-90°	3554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3554.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1554	1550	1550	1557	1560	147
15°	1470	1470	1474	1488	1496	414
25°	1305	1311	1323	1341	1352	600
35°	1077	1082	1094	1117	1128	671
45°	805	806	817	834	841	620
55°	537	536	538	548	554	482
65°	323	322	317	319	324	324
75°	190	182	172	168	172	200
85°	73	72	62	57	58	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1560.2	1560.2	1560.2	1560.2	1560.2
2.5°	1560.2	1556.9	1556.0	1561.9	1565.2
5°	1553.6	1550.4	1549.5	1556.9	1560.2
7.5°	1540.5	1537.9	1538.8	1547.1	1551.2
10°	1521.6	1520.7	1522.4	1531.4	1536.4
12.5°	1499.3	1498.4	1501.7	1511.5	1518.3
15°	1469.6	1469.6	1474.4	1487.7	1496.0
17.5°	1434.1	1436.5	1443.9	1457.2	1466.1
20°	1396.1	1398.7	1408.5	1423.4	1434.1
22.5°	1354.0	1357.5	1367.3	1385.4	1394.6
25°	1304.7	1311.2	1322.8	1340.9	1351.6
27.5°	1253.4	1260.8	1271.5	1294.0	1303.8
30°	1197.4	1202.4	1218.1	1238.6	1250.2
32.5°	1138.0	1143.0	1156.1	1181.0	1190.8
35°	1076.9	1081.9	1094.4	1116.6	1128.2
37.5°	1011.0	1015.2	1030.0	1047.2	1059.7
40°	941.9	947.5	957.4	978.1	988.8
42.5°	874.2	876.6	887.3	908.1	916.1
45°	804.9	805.7	817.3	833.7	841.1
47.5°	733.1	734.8	748.8	758.6	766.0
50°	666.3	667.2	677.0	686.2	694.5
52.5°	599.5	599.5	604.6	614.4	625.1
55°	536.9	536.1	538.5	547.6	554.2
57.5°	477.6	476.7	480.0	485.7	490.7
60°	419.8	418.0	421.3	424.8	431.3
62.5°	368.7	370.2	366.1	371.1	376.1
65°	323.3	321.6	316.6	319.2	324.0
67.5°	284.5	282.1	273.8	275.3	281.2
70°	248.9	244.1	235.0	235.0	239.1
72.5°	216.9	211.8	200.3	201.2	202.9
75°	189.6	181.5	171.5	168.2	172.4
77.5°	159.9	153.4	144.2	141.8	143.6
80°	132.0	127.0	116.3	113.0	115.4
82.5°	104.7	100.6	88.1	85.7	86.6
85°	72.7	71.8	61.7	56.9	58.5
87.5°	38.8	39.5	32.1	28.8	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)