

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: P475897

Luminaire Tested: **22GR-LD5-36-F1-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475897  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-36-F1-UNV-L835-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F1 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3681.8 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.17 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

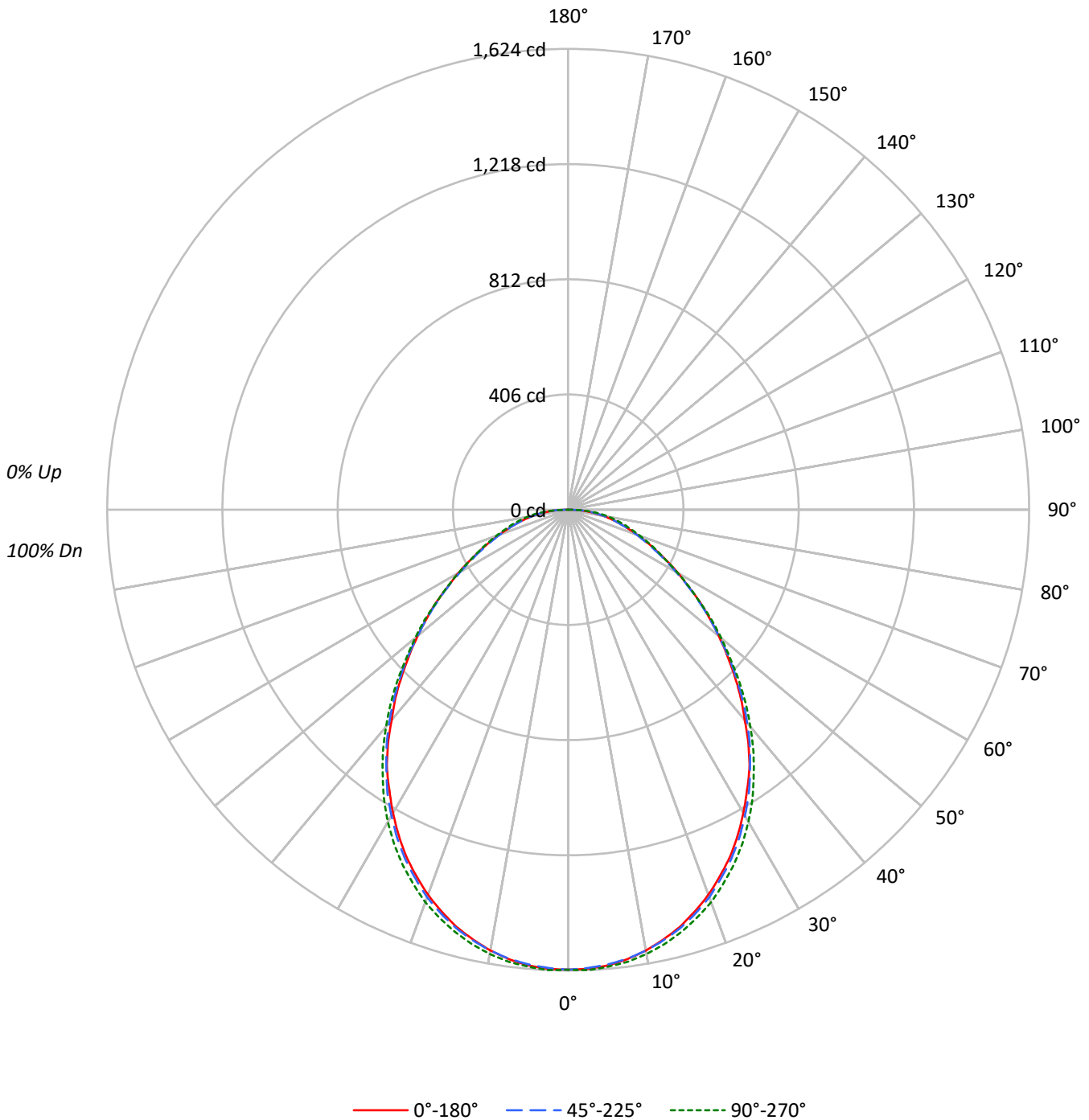
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

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

	0°	45°	90°
0°	4362	4362	4362
5°	4354	4345	4366
10°	4311	4311	4345
15°	4239	4252	4291
20°	4135	4162	4215
25°	4006	4034	4098
30°	3836	3869	3947
35°	3657	3667	3744
40°	3398	3447	3507
45°	3155	3185	3232
50°	2899	2899	2945
55°	2659	2630	2644
60°	2407	2365	2398
65°	2195	2145	2215
70°	2028	2016	2113
75°	1954	1937	2131
80°	1973	1973	2263
85°	2062	2158	2587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.9	4.2
10°-20°	430.3	11.7
20°-30°	625.6	17.0
30°-40°	700.3	19.0
40°-50°	646.4	17.6
50°-60°	504.4	13.7
60°-70°	341.4	9.3
70°-80°	203.9	5.5
80°-90°	76.6	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°	1208.8	32.8
0°-40°	1909.1	51.9
0°-60°	3059.9	83.1
0°-90°	3681.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3681.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1612	1609	1609	1615	1616	153
15°	1522	1522	1526	1536	1540	428
25°	1349	1349	1359	1373	1380	620
35°	1113	1112	1116	1134	1140	692
45°	829	834	837	843	849	640
55°	567	562	560	564	564	506
65°	345	342	337	343	348	343
75°	188	186	186	197	205	199
85°	67	65	70	81	84	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1621.0	1621.0	1621.0	1621.0	1621.0
2.5°	1619.5	1616.4	1616.4	1621.0	1624.1
5°	1611.7	1608.6	1608.6	1614.8	1616.4
7.5°	1597.7	1596.2	1596.2	1602.4	1607.0
10°	1577.5	1576.0	1577.5	1583.8	1590.0
12.5°	1551.1	1551.1	1554.3	1562.0	1568.2
15°	1521.6	1521.6	1526.3	1535.6	1540.3
17.5°	1484.4	1485.9	1492.1	1503.0	1507.7
20°	1444.0	1447.1	1453.3	1462.6	1472.0
22.5°	1397.4	1400.5	1406.7	1420.7	1426.9
25°	1349.3	1349.3	1358.6	1372.6	1380.3
27.5°	1293.4	1295.0	1304.3	1319.8	1327.6
30°	1234.4	1239.1	1245.3	1259.2	1270.1
32.5°	1172.3	1176.9	1184.7	1200.2	1208.0
35°	1113.3	1111.7	1116.4	1133.5	1139.7
37.5°	1043.4	1045.0	1051.2	1063.6	1071.4
40°	967.3	975.1	981.3	990.6	998.4
42.5°	900.6	905.2	909.9	919.2	925.4
45°	829.1	833.8	836.9	843.1	849.3
47.5°	759.3	760.8	765.5	768.6	773.2
50°	692.5	694.1	692.5	697.2	703.4
52.5°	627.3	625.7	625.7	627.3	636.6
55°	566.7	562.1	560.5	563.6	563.6
57.5°	500.0	498.4	498.4	496.9	504.6
60°	447.2	442.5	439.4	442.5	445.6
62.5°	392.8	388.2	385.1	391.3	391.3
65°	344.7	341.6	336.9	343.1	347.8
67.5°	298.1	295.0	293.5	301.2	307.4
70°	257.7	256.2	256.2	264.0	268.6
72.5°	220.5	218.9	218.9	229.8	234.5
75°	187.9	186.3	186.3	197.2	205.0
77.5°	155.3	153.7	158.4	167.7	175.5
80°	127.3	125.8	127.3	139.7	146.0
82.5°	96.3	96.3	99.4	111.8	118.0
85°	66.8	65.2	69.9	80.7	83.8
87.5°	34.2	35.7	37.3	43.5	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)