

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: P475945

Luminaire Tested: **22GR-LD5-36-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475945
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-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3683.0 lumens
Efficiency: N/A
Efficacy: 129.2 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

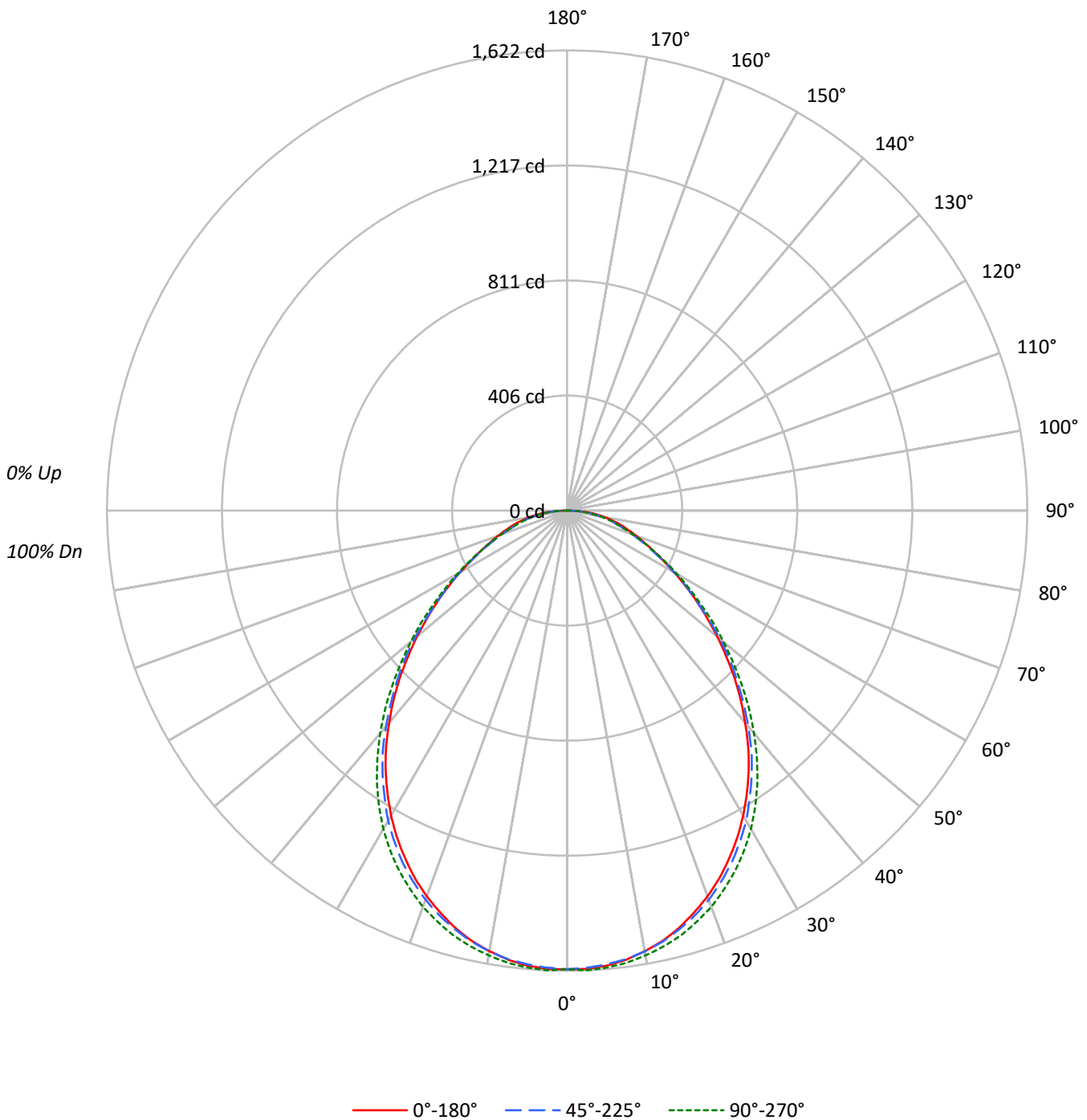
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4351	4351	4351
5°	4349	4337	4367
10°	4308	4311	4350
15°	4243	4257	4319
20°	4143	4180	4256
25°	4014	4070	4159
30°	3856	3922	4025
35°	3666	3726	3841
40°	3429	3485	3599
45°	3174	3223	3317
50°	2891	2937	3013
55°	2610	2618	2694
60°	2341	2350	2406
65°	2134	2089	2138
70°	2030	1916	1950
75°	2043	1848	1857
80°	2120	1867	1853
85°	2325	1976	1871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	4.1
10°-20°	431.5	11.7
20°-30°	631.6	17.1
30°-40°	710.1	19.3
40°-50°	654.9	17.8
50°-60°	504.7	13.7
60°-70°	333.0	9.0
70°-80°	193.8	5.3
80°-90°	70.6	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°	1215.8	33.0
0°-40°	1925.9	52.3
0°-60°	3085.5	83.8
0°-90°	3683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1610	1607	1606	1613	1617	153
15°	1523	1523	1528	1542	1550	429
25°	1352	1359	1371	1390	1401	622
35°	1116	1121	1134	1157	1169	696
45°	834	835	847	864	872	642
55°	556	556	558	568	574	499
65°	335	333	328	331	336	336
75°	196	188	178	174	179	207
85°	75	74	64	59	61	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1616.8	1616.8	1616.8	1616.8	1616.8
2.5°	1616.8	1613.4	1612.5	1618.6	1622.0
5°	1610.0	1606.6	1605.7	1613.4	1616.8
7.5°	1596.4	1593.7	1594.6	1603.2	1607.5
10°	1576.7	1575.8	1577.7	1586.9	1592.1
12.5°	1553.7	1552.8	1556.2	1566.3	1573.4
15°	1522.9	1522.9	1527.9	1541.7	1550.3
17.5°	1486.1	1488.6	1496.3	1510.1	1519.3
20°	1446.7	1449.5	1459.6	1475.0	1486.1
22.5°	1403.1	1406.7	1416.9	1435.7	1445.2
25°	1352.0	1358.8	1370.8	1389.5	1400.6
27.5°	1298.9	1306.6	1317.7	1340.9	1351.1
30°	1240.8	1246.0	1262.3	1283.5	1295.5
32.5°	1179.3	1184.5	1198.0	1223.8	1234.0
35°	1116.0	1121.2	1134.1	1157.1	1169.1
37.5°	1047.7	1052.0	1067.4	1085.2	1098.1
40°	976.0	981.9	992.1	1013.6	1024.6
42.5°	905.9	908.4	919.5	941.0	949.4
45°	834.0	834.9	846.9	863.9	871.6
47.5°	759.7	761.5	775.9	786.1	793.8
50°	690.5	691.4	701.6	711.1	719.6
52.5°	621.3	621.3	626.5	636.7	647.7
55°	556.4	555.5	558.0	567.5	574.3
57.5°	494.9	494.0	497.4	503.3	508.5
60°	435.0	433.2	436.6	440.2	447.0
62.5°	382.1	383.7	379.4	384.6	389.8
65°	335.1	333.3	328.1	330.8	335.7
67.5°	294.8	292.3	283.7	285.3	291.4
70°	258.0	253.0	243.5	243.5	247.8
72.5°	224.7	219.5	207.6	208.5	210.3
75°	196.5	188.1	177.7	174.3	178.6
77.5°	165.7	158.9	149.4	147.0	148.8
80°	136.8	131.6	120.5	117.1	119.6
82.5°	108.5	104.2	91.3	88.9	89.8
85°	75.3	74.4	64.0	59.0	60.6
87.5°	40.2	40.9	33.2	29.8	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)