

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: P475955

Luminaire Tested: **22GR-LD5-28-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475955
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-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: 2893.9 lumens
Efficiency: N/A
Efficacy: 137.8 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

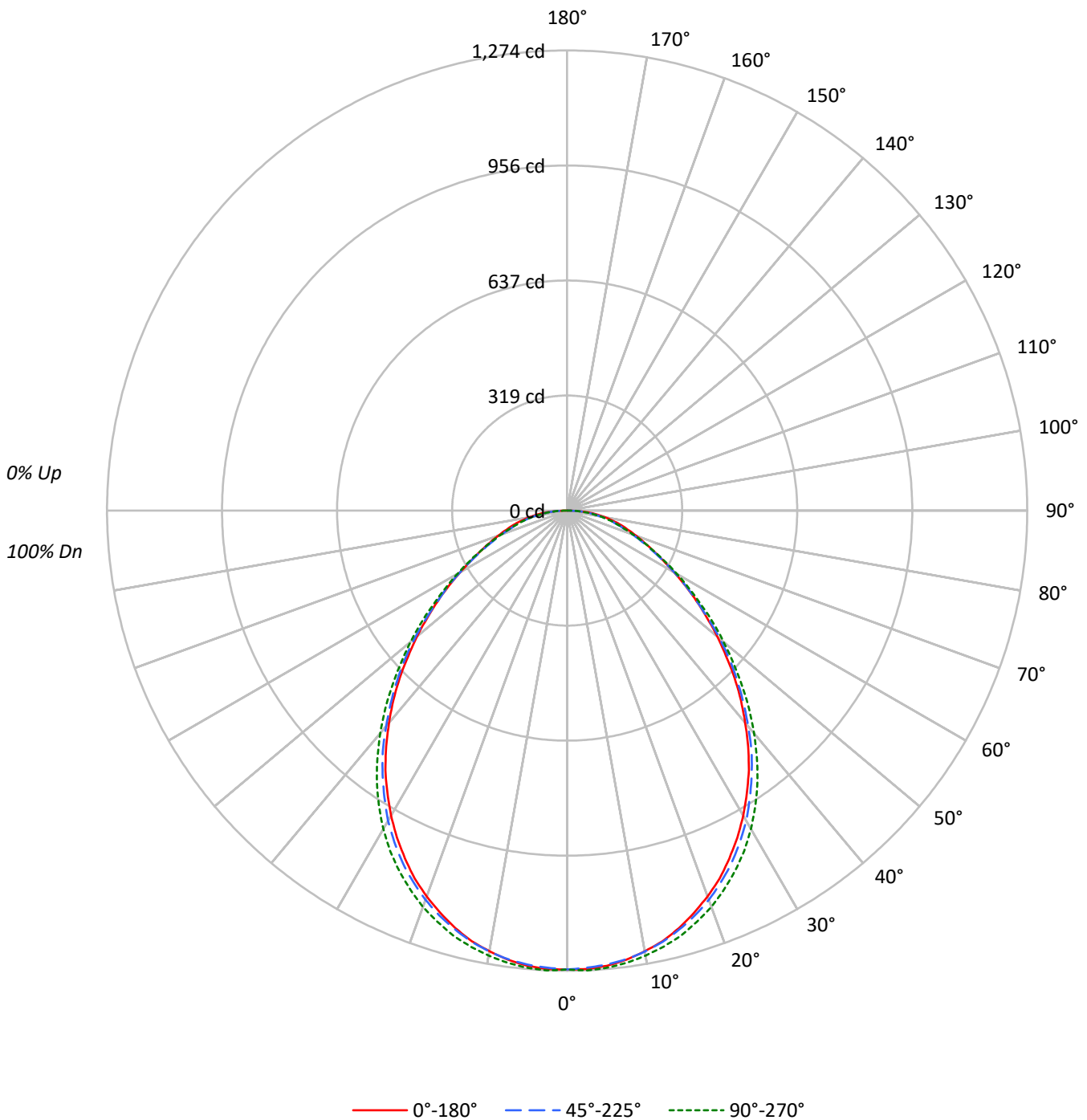
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3419	3419	3419
5°	3417	3408	3432
10°	3385	3387	3418
15°	3334	3345	3394
20°	3255	3284	3344
25°	3154	3198	3268
30°	3030	3082	3163
35°	2881	2927	3018
40°	2694	2738	2828
45°	2494	2533	2606
50°	2272	2308	2367
55°	2051	2057	2117
60°	1840	1846	1890
65°	1677	1642	1680
70°	1595	1505	1532
75°	1605	1451	1459
80°	1666	1468	1457
85°	1828	1553	1470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	4.1
10°-20°	339.1	11.7
20°-30°	496.3	17.1
30°-40°	558.0	19.3
40°-50°	514.6	17.8
50°-60°	396.6	13.7
60°-70°	261.7	9.0
70°-80°	152.3	5.3
80°-90°	55.5	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°	955.4	33.0
0°-40°	1513.3	52.3
0°-60°	2424.5	83.8
0°-90°	2893.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2893.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1265	1262	1262	1268	1270	120
15°	1197	1197	1201	1211	1218	337
25°	1062	1068	1077	1092	1101	489
35°	877	881	891	909	919	547
45°	655	656	666	679	685	505
55°	437	436	438	446	451	392
65°	263	262	258	260	264	264
75°	154	148	140	137	140	163
85°	59	58	50	46	48	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.4	1270.4	1270.4	1270.4	1270.4
2.5°	1270.4	1267.7	1267.0	1271.8	1274.5
5°	1265.1	1262.4	1261.7	1267.7	1270.4
7.5°	1254.4	1252.3	1253.0	1259.7	1263.1
10°	1238.9	1238.2	1239.7	1246.9	1251.0
12.5°	1220.8	1220.1	1222.8	1230.8	1236.3
15°	1196.7	1196.7	1200.6	1211.4	1218.2
17.5°	1167.7	1169.7	1175.7	1186.5	1193.8
20°	1136.8	1138.9	1146.9	1159.0	1167.7
22.5°	1102.5	1105.4	1113.3	1128.1	1135.6
25°	1062.4	1067.7	1077.1	1091.9	1100.6
27.5°	1020.6	1026.7	1035.4	1053.7	1061.7
30°	975.0	979.0	991.8	1008.5	1017.9
32.5°	926.6	930.7	941.4	961.6	969.6
35°	876.9	881.0	891.1	909.2	918.6
37.5°	823.2	826.6	838.7	852.7	862.9
40°	766.9	771.5	779.5	796.4	805.1
42.5°	711.9	713.8	722.5	739.4	746.0
45°	655.4	656.1	665.5	678.8	684.9
47.5°	596.9	598.3	609.7	617.7	623.7
50°	542.6	543.3	551.3	558.7	565.5
52.5°	488.2	488.2	492.3	500.3	509.0
55°	437.2	436.5	438.4	445.9	451.2
57.5°	388.9	388.2	390.8	395.5	399.5
60°	341.8	340.4	343.0	345.9	351.2
62.5°	300.2	301.5	298.1	302.2	306.3
65°	263.3	261.9	257.8	259.9	263.8
67.5°	231.7	229.7	223.0	224.2	229.0
70°	202.7	198.8	191.3	191.3	194.7
72.5°	176.6	172.5	163.1	163.8	165.2
75°	154.4	147.8	139.6	137.0	140.3
77.5°	130.2	124.9	117.4	115.5	116.9
80°	107.5	103.4	94.7	92.0	94.0
82.5°	85.3	81.9	71.8	69.8	70.5
85°	59.2	58.4	50.3	46.4	47.6
87.5°	31.6	32.2	26.1	23.5	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)