

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: P475957

Luminaire Tested: **22GR-LD5-36-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475957
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-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: 3752.9 lumens
Efficiency: N/A
Efficacy: 131.7 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

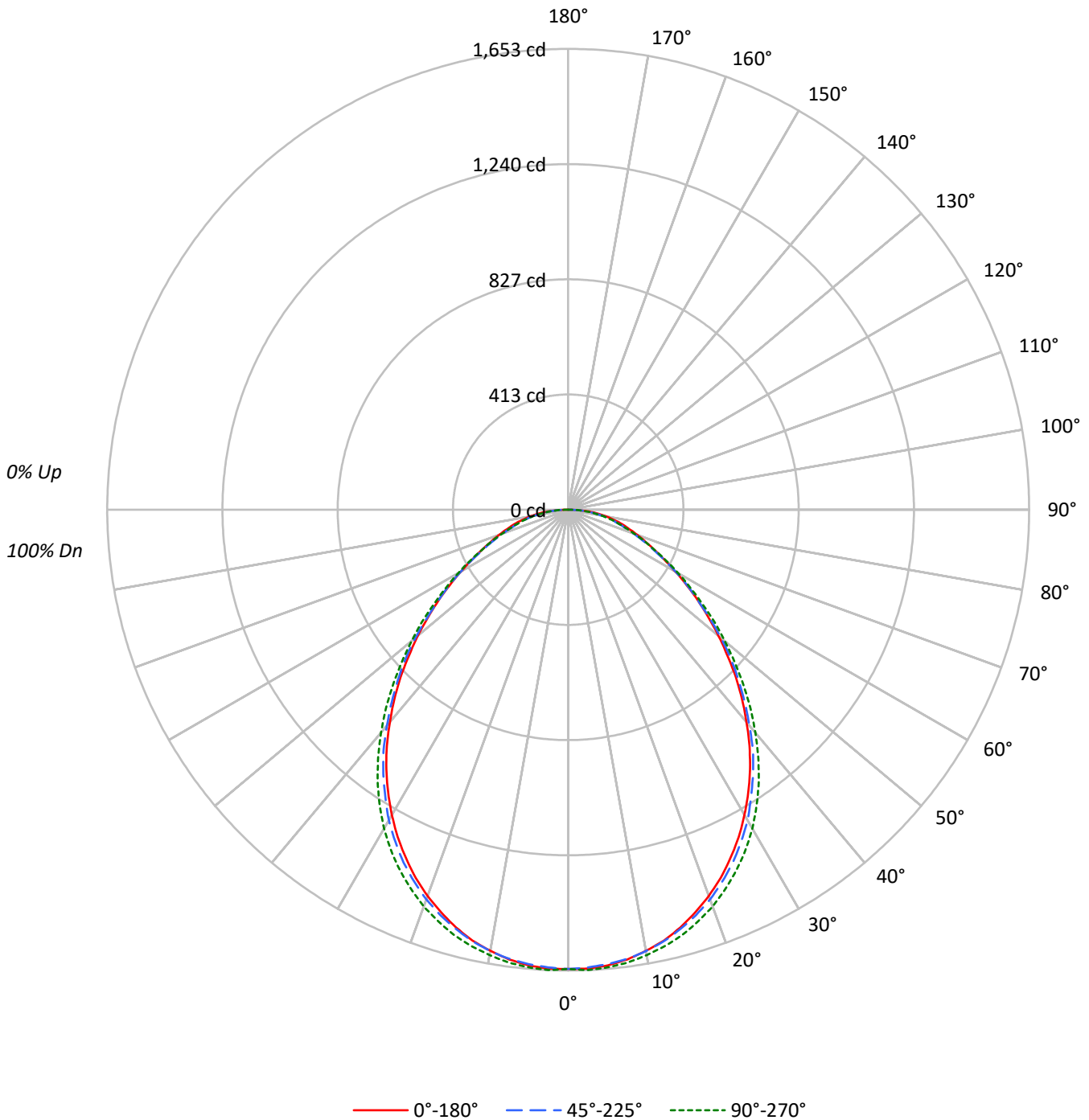
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4433	4433	4433
5°	4432	4420	4450
10°	4390	4393	4433
15°	4323	4337	4401
20°	4222	4259	4336
25°	4091	4147	4238
30°	3929	3997	4102
35°	3736	3796	3914
40°	3494	3551	3668
45°	3234	3284	3380
50°	2946	2993	3070
55°	2660	2668	2746
60°	2386	2394	2451
65°	2174	2129	2178
70°	2068	1952	1987
75°	2082	1883	1892
80°	2160	1903	1889
85°	2368	2013	1905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	4.1
10°-20°	439.7	11.7
20°-30°	643.6	17.1
30°-40°	723.6	19.3
40°-50°	667.3	17.8
50°-60°	514.3	13.7
60°-70°	339.4	9.0
70°-80°	197.5	5.3
80°-90°	71.9	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°	1238.9	33.0
0°-40°	1962.5	52.3
0°-60°	3144.1	83.8
0°-90°	3752.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3752.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1648	1648	1648	1648	1648	
5°	1641	1637	1636	1644	1648	156
15°	1552	1552	1557	1571	1580	437
25°	1378	1385	1397	1416	1427	634
35°	1137	1142	1156	1179	1191	709
45°	850	851	863	880	888	654
55°	567	566	569	578	585	509
65°	341	340	334	337	342	342
75°	200	192	181	178	182	211
85°	77	76	65	60	62	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1647.5	1647.5	1647.5	1647.5	1647.5
2.5°	1647.5	1644.0	1643.1	1649.3	1652.8
5°	1640.6	1637.1	1636.2	1644.0	1647.5
7.5°	1626.8	1624.0	1624.9	1633.7	1638.0
10°	1606.7	1605.8	1607.6	1617.1	1622.4
12.5°	1583.2	1582.3	1585.7	1596.1	1603.3
15°	1551.9	1551.9	1556.9	1571.0	1579.8
17.5°	1514.3	1516.9	1524.7	1538.7	1548.2
20°	1474.2	1477.0	1487.4	1503.0	1514.3
22.5°	1429.8	1433.5	1443.8	1462.9	1472.6
25°	1377.7	1384.6	1396.8	1415.9	1427.2
27.5°	1323.6	1331.4	1342.7	1366.4	1376.8
30°	1264.4	1269.7	1286.2	1307.9	1320.1
32.5°	1201.7	1207.0	1220.8	1247.1	1257.4
35°	1137.2	1142.5	1155.6	1179.1	1191.3
37.5°	1067.6	1072.0	1087.6	1105.8	1119.0
40°	994.6	1000.6	1010.9	1032.8	1044.1
42.5°	923.2	925.7	937.0	958.9	967.4
45°	849.9	850.8	863.0	880.3	888.1
47.5°	774.1	775.9	790.7	801.0	808.9
50°	703.6	704.5	714.9	724.6	733.3
52.5°	633.1	633.1	638.4	648.8	660.1
55°	567.0	566.1	568.6	578.3	585.2
57.5°	504.3	503.4	506.8	512.8	518.1
60°	443.3	441.4	444.9	448.6	455.5
62.5°	389.4	391.0	386.6	391.9	397.2
65°	341.4	339.6	334.3	337.1	342.1
67.5°	300.4	297.9	289.1	290.7	297.0
70°	262.9	257.8	248.1	248.1	252.5
72.5°	229.0	223.7	211.5	212.4	214.3
75°	200.2	191.7	181.1	177.6	182.0
77.5°	168.9	162.0	152.3	149.8	151.6
80°	139.4	134.1	122.8	119.3	121.9
82.5°	110.6	106.2	93.1	90.5	91.5
85°	76.7	75.8	65.2	60.1	61.7
87.5°	41.0	41.7	33.9	30.4	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)