

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: P476113

Luminaire Tested: **22GR-LD5-36-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476113
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-A125-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3771.7 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

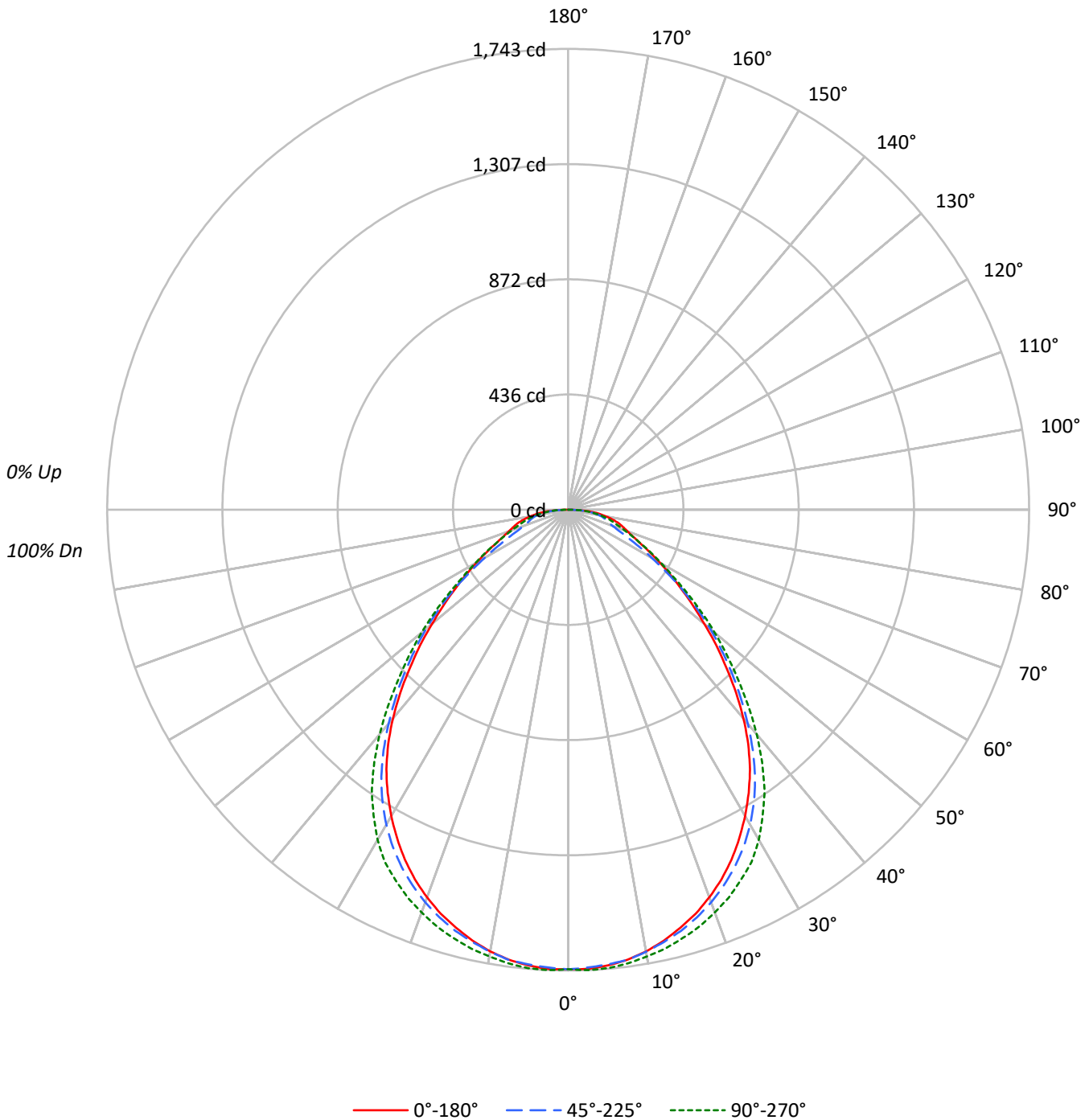
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4679	4679	4679
5°	4675	4663	4701
10°	4635	4640	4688
15°	4561	4594	4672
20°	4468	4525	4641
25°	4337	4426	4588
30°	4157	4274	4479
35°	3937	4047	4252
40°	3621	3710	3895
45°	3216	3333	3453
50°	2809	2938	3026
55°	2442	2476	2566
60°	2149	1969	2192
65°	1910	1573	1920
70°	1875	1397	1772
75°	2049	1536	1809
80°	2250	1824	1936
85°	2686	2118	2171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	4.4
10°-20°	466.0	12.4
20°-30°	687.9	18.2
30°-40°	769.7	20.4
40°-50°	676.0	17.9
50°-60°	478.3	12.7
60°-70°	278.4	7.4
70°-80°	173.5	4.6
80°-90°	77.6	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°	1318.2	34.9
0°-40°	2087.9	55.4
0°-60°	3242.1	86.0
0°-90°	3771.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3771.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1739	1739	1739	1739	1739	
5°	1731	1726	1726	1735	1740	164
15°	1637	1641	1649	1666	1677	461
25°	1461	1467	1490	1526	1545	671
35°	1198	1204	1232	1269	1294	745
45°	845	855	876	897	907	654
55°	520	531	528	537	547	471
65°	300	276	247	269	302	304
75°	197	170	148	151	174	206
85°	87	90	69	67	70	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.6	1738.6	1738.6	1738.6	1738.6
2.5°	1738.6	1735.1	1733.2	1739.5	1743.0
5°	1730.6	1726.2	1726.2	1735.1	1740.4
7.5°	1716.7	1712.3	1717.4	1725.3	1730.6
10°	1696.4	1694.6	1698.1	1708.8	1715.8
12.5°	1669.9	1670.9	1674.3	1691.1	1699.9
15°	1637.3	1640.8	1649.0	1666.4	1676.9
17.5°	1602.2	1605.0	1617.1	1637.3	1652.5
20°	1560.1	1565.2	1580.3	1605.7	1620.8
22.5°	1513.3	1519.6	1538.0	1568.9	1587.3
25°	1460.7	1466.8	1490.5	1525.7	1545.2
27.5°	1400.9	1410.5	1437.0	1475.6	1501.9
30°	1337.7	1345.6	1375.4	1419.3	1441.4
32.5°	1269.9	1279.5	1307.6	1349.8	1369.3
35°	1198.5	1203.9	1232.0	1269.0	1294.4
37.5°	1117.8	1120.3	1146.6	1181.1	1203.9
40°	1030.8	1032.4	1056.1	1088.7	1108.9
42.5°	940.0	940.9	966.5	991.0	1008.7
45°	845.1	854.9	875.8	897.0	907.4
47.5°	759.7	766.9	786.2	804.6	814.4
50°	671.0	688.5	701.8	711.5	722.9
52.5°	594.5	609.4	612.9	624.3	634.0
55°	520.5	531.2	527.7	537.3	547.0
57.5°	458.1	452.8	441.4	458.1	470.5
60°	399.3	385.1	365.8	388.8	407.2
62.5°	346.5	323.7	299.9	322.7	353.4
65°	299.9	276.2	247.1	269.2	301.5
67.5°	264.8	240.1	205.7	227.8	260.4
70°	238.3	212.9	177.5	196.1	225.2
72.5°	217.3	189.9	159.2	171.5	196.1
75°	197.1	169.6	147.7	151.2	174.0
77.5°	173.3	153.1	135.4	133.6	151.2
80°	145.2	138.9	117.7	115.2	124.9
82.5°	119.6	117.0	96.8	94.0	97.7
85°	87.0	90.5	68.6	66.8	70.3
87.5°	45.8	50.0	36.1	37.9	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)