

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: P476101

Luminaire Tested: **22GR-LD5-36-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476101
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-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3768.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

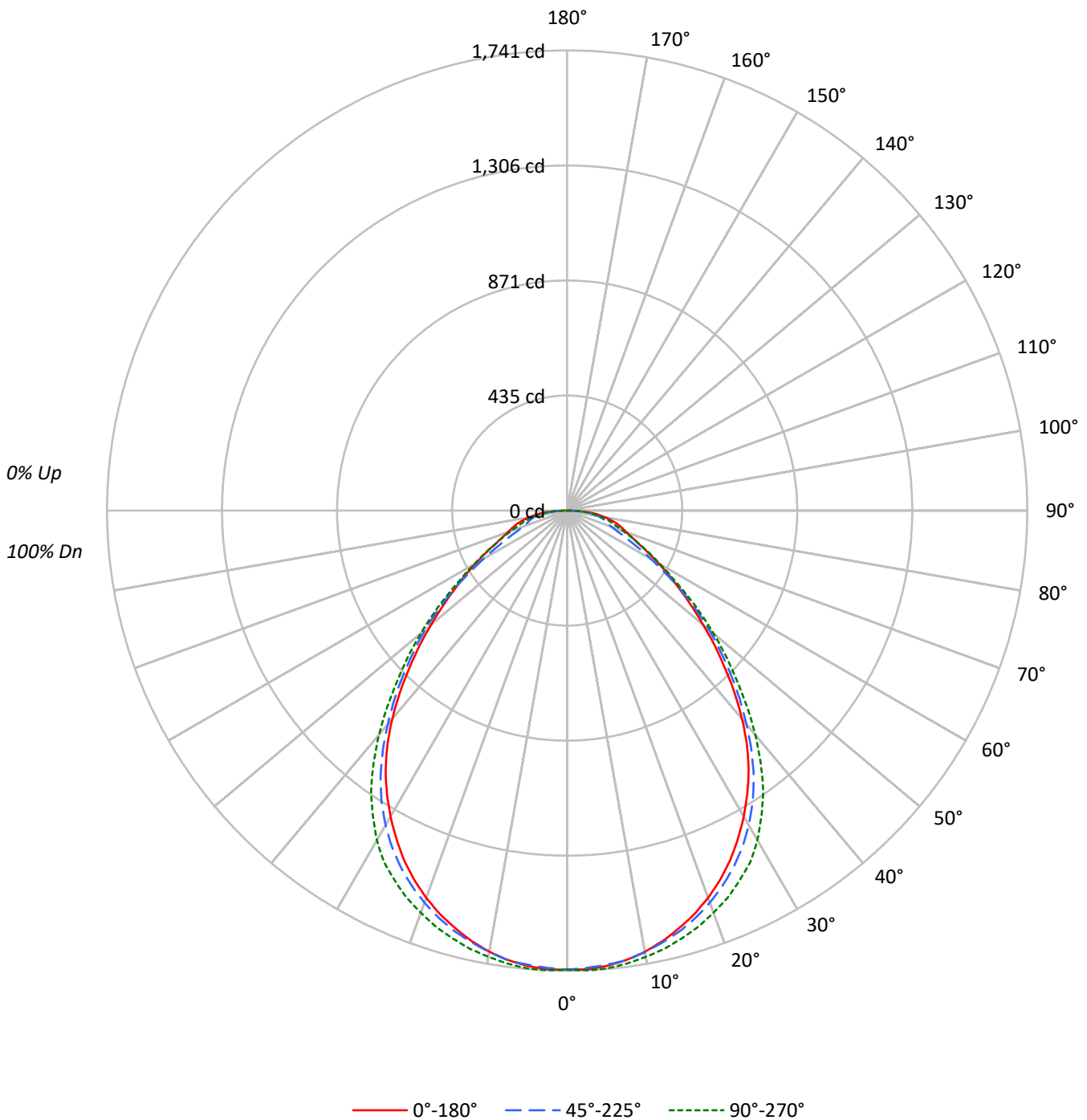
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4674	4674	4674
5°	4670	4658	4697
10°	4631	4635	4684
15°	4557	4590	4667
20°	4463	4521	4637
25°	4333	4421	4584
30°	4152	4269	4474
35°	3933	4043	4248
40°	3617	3706	3892
45°	3213	3330	3450
50°	2807	2935	3023
55°	2440	2473	2564
60°	2147	1967	2189
65°	1908	1572	1918
70°	1873	1396	1770
75°	2047	1535	1808
80°	2247	1822	1934
85°	2683	2118	2167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	4.4
10°-20°	465.5	12.4
20°-30°	687.2	18.2
30°-40°	769.0	20.4
40°-50°	675.3	17.9
50°-60°	477.8	12.7
60°-70°	278.1	7.4
70°-80°	173.3	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°	1316.9	34.9
0°-40°	2085.8	55.4
0°-60°	3238.9	86.0
0°-90°	3768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1737	1737	1737	1737	1737	
5°	1729	1724	1724	1733	1739	164
15°	1636	1639	1647	1665	1675	461
25°	1459	1465	1489	1524	1544	670
35°	1197	1203	1231	1268	1293	745
45°	844	854	875	896	906	653
55°	520	531	527	537	546	470
65°	300	276	247	269	301	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°	1736.9	1736.9	1736.9	1736.9	1736.9
2.5°	1736.9	1733.4	1731.5	1737.8	1741.3
5°	1729.0	1724.5	1724.5	1733.4	1738.7
7.5°	1715.0	1710.6	1715.7	1723.6	1729.0
10°	1694.8	1692.9	1696.4	1707.1	1714.1
12.5°	1668.3	1669.2	1672.7	1689.4	1698.3
15°	1635.7	1639.2	1647.4	1664.8	1675.3
17.5°	1600.6	1603.4	1615.5	1635.7	1650.8
20°	1558.6	1563.7	1578.8	1604.1	1619.2
22.5°	1511.8	1518.1	1536.5	1567.4	1585.8
25°	1459.3	1465.4	1489.1	1524.2	1543.7
27.5°	1399.6	1409.1	1435.6	1474.2	1500.5
30°	1336.3	1344.2	1374.0	1417.9	1440.0
32.5°	1268.7	1278.2	1306.4	1348.4	1368.0
35°	1197.3	1202.7	1230.8	1267.8	1293.1
37.5°	1116.7	1119.2	1145.5	1179.9	1202.7
40°	1029.7	1031.4	1055.1	1087.6	1107.8
42.5°	939.1	940.0	965.6	990.0	1007.7
45°	844.3	854.0	874.9	896.1	906.5
47.5°	758.9	766.1	785.4	803.8	813.6
50°	670.4	687.8	701.1	710.8	722.2
52.5°	593.9	608.8	612.3	623.7	633.4
55°	520.0	530.7	527.2	536.7	546.5
57.5°	457.7	452.3	441.0	457.7	470.0
60°	398.9	384.7	365.4	388.4	406.8
62.5°	346.1	323.3	299.6	322.4	353.1
65°	299.6	275.9	246.9	268.9	301.3
67.5°	264.5	239.9	205.5	227.6	260.1
70°	238.0	212.7	177.4	196.0	225.0
72.5°	217.1	189.7	159.0	171.3	196.0
75°	196.9	169.5	147.6	151.1	173.9
77.5°	173.2	153.0	135.3	133.4	151.1
80°	145.0	138.8	117.6	115.1	124.8
82.5°	119.5	116.9	96.7	93.9	97.6
85°	86.9	90.4	68.6	66.7	70.2
87.5°	45.8	50.0	36.0	37.9	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)