

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: P476077

Luminaire Tested: **22GR-LD5-36-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476077
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-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3568.3 lumens
Efficiency: N/A
Efficacy: 125.2 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

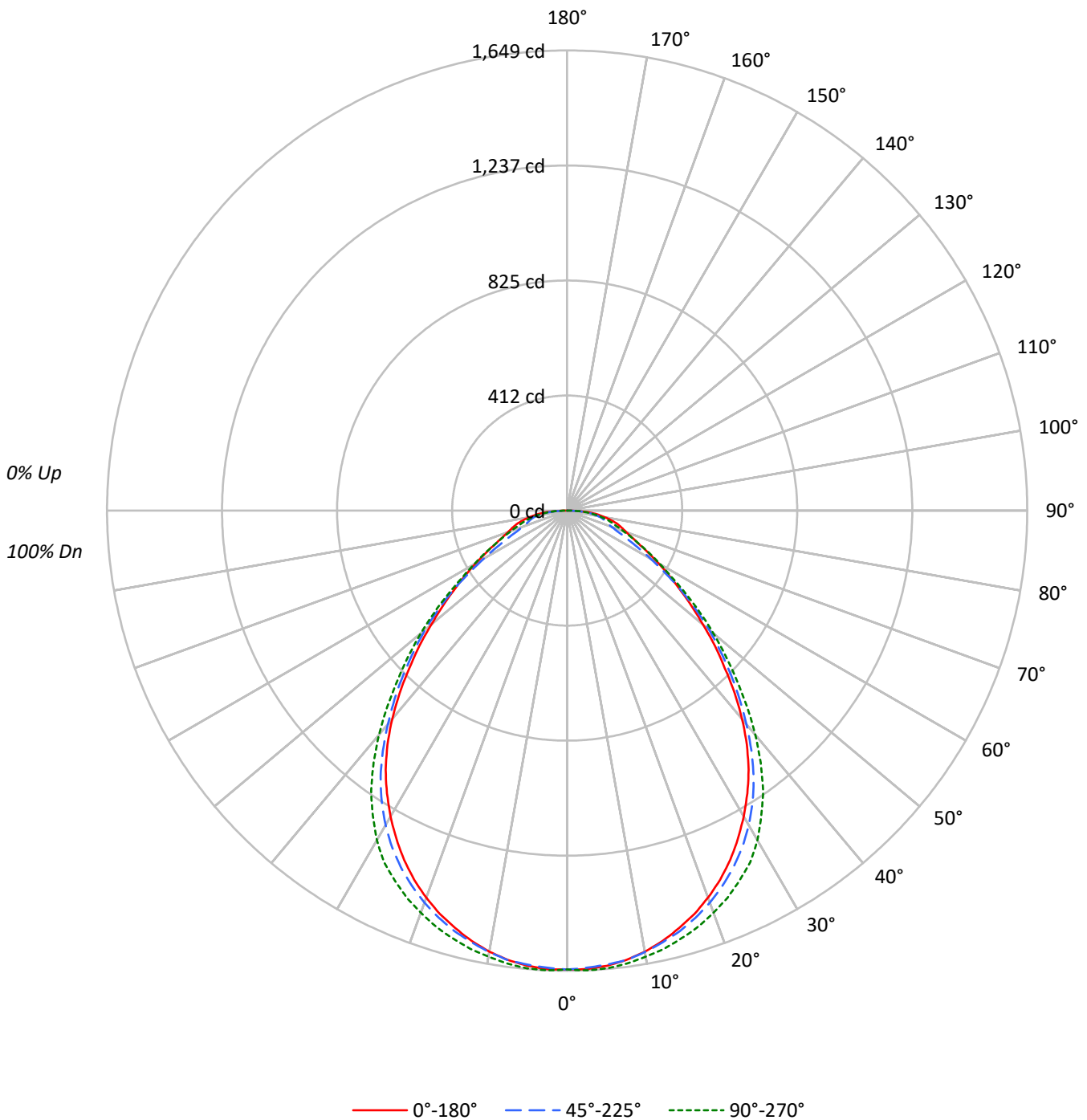
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4426	4426	4426
5°	4423	4411	4448
10°	4386	4390	4435
15°	4316	4346	4420
20°	4227	4281	4391
25°	4103	4187	4341
30°	3932	4043	4237
35°	3725	3829	4023
40°	3426	3510	3685
45°	3043	3153	3267
50°	2658	2779	2863
55°	2310	2343	2428
60°	2033	1862	2073
65°	1806	1489	1817
70°	1773	1322	1677
75°	1939	1454	1712
80°	2129	1726	1832
85°	2541	2004	2053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	4.4
10°-20°	440.8	12.4
20°-30°	650.8	18.2
30°-40°	728.2	20.4
40°-50°	639.5	17.9
50°-60°	452.5	12.7
60°-70°	263.4	7.4
70°-80°	164.1	4.6
80°-90°	73.4	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°	1247.1	34.9
0°-40°	1975.3	55.4
0°-60°	3067.3	86.0
0°-90°	3568.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3568.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1637	1633	1633	1642	1647	155
15°	1549	1552	1560	1577	1586	436
25°	1382	1388	1410	1443	1462	635
35°	1134	1139	1166	1201	1225	705
45°	800	809	829	849	858	618
55°	492	503	499	508	518	445
65°	284	261	234	255	285	288
75°	186	160	140	143	165	195
85°	82	86	65	63	66	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1644.8	1644.8	1644.8	1644.8	1644.8
2.5°	1644.8	1641.5	1639.8	1645.7	1649.0
5°	1637.3	1633.1	1633.1	1641.5	1646.6
7.5°	1624.1	1619.9	1624.8	1632.3	1637.3
10°	1605.0	1603.2	1606.5	1616.6	1623.2
12.5°	1579.9	1580.8	1584.1	1599.9	1608.3
15°	1549.1	1552.4	1560.1	1576.6	1586.5
17.5°	1515.8	1518.5	1529.9	1549.1	1563.4
20°	1476.0	1480.8	1495.1	1519.1	1533.4
22.5°	1431.7	1437.7	1455.1	1484.3	1501.7
25°	1382.0	1387.7	1410.2	1443.4	1461.9
27.5°	1325.4	1334.4	1359.5	1396.1	1420.9
30°	1265.5	1273.0	1301.2	1342.8	1363.7
32.5°	1201.5	1210.5	1237.1	1277.0	1295.5
35°	1133.9	1139.0	1165.6	1200.6	1224.6
37.5°	1057.5	1059.9	1084.8	1117.4	1139.0
40°	975.2	976.7	999.2	1030.0	1049.1
42.5°	889.3	890.2	914.4	937.5	954.3
45°	799.5	808.8	828.6	848.6	858.5
47.5°	718.7	725.5	743.8	761.2	770.5
50°	634.9	651.4	663.9	673.2	683.9
52.5°	562.4	576.5	579.8	590.6	599.9
55°	492.4	502.6	499.3	508.3	517.5
57.5°	433.4	428.4	417.6	433.4	445.1
60°	377.7	364.3	346.0	367.8	385.2
62.5°	327.8	306.2	283.7	305.3	334.4
65°	283.7	261.3	233.8	254.7	285.3
67.5°	250.5	227.2	194.6	215.5	246.3
70°	225.4	201.4	168.0	185.6	213.1
72.5°	205.6	179.6	150.6	162.2	185.6
75°	186.5	160.5	139.8	143.1	164.7
77.5°	164.0	144.8	128.1	126.4	143.1
80°	137.4	131.4	111.4	109.0	118.2
82.5°	113.1	110.7	91.6	88.9	92.5
85°	82.3	85.6	64.9	63.2	66.5
87.5°	43.4	47.3	34.1	35.9	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)