

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: P476076

Luminaire Tested: **22GR-LD5-32-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476076
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-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: 3171.1 lumens
Efficiency: N/A
Efficacy: 126.8 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

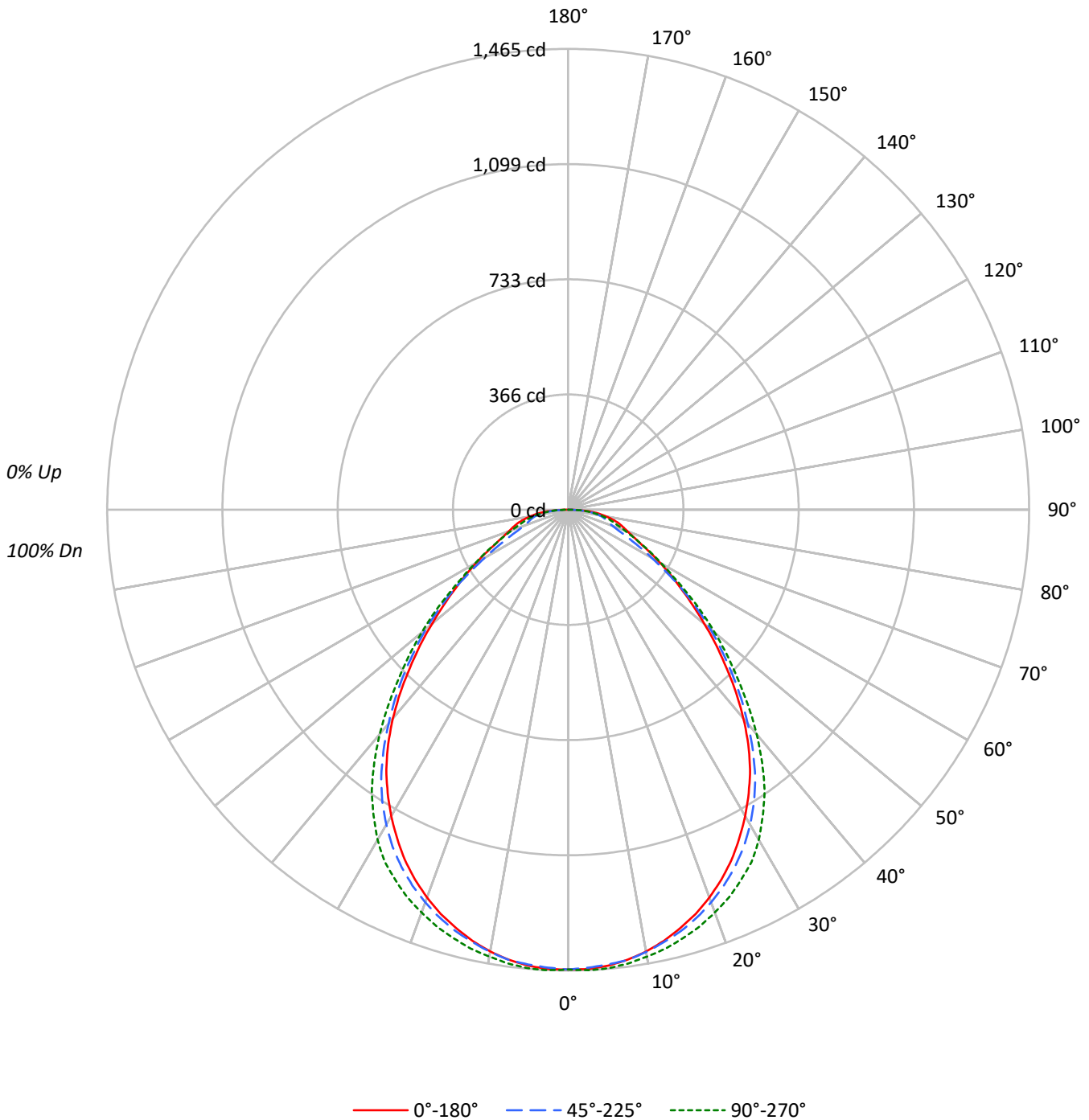
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3933	3933	3933
5°	3931	3920	3953
10°	3897	3901	3942
15°	3835	3862	3928
20°	3756	3805	3902
25°	3646	3721	3857
30°	3494	3593	3766
35°	3310	3403	3575
40°	3044	3119	3275
45°	2704	2802	2903
50°	2362	2470	2545
55°	2053	2082	2158
60°	1807	1655	1842
65°	1606	1323	1614
70°	1576	1175	1490
75°	1723	1291	1521
80°	1892	1534	1629
85°	2260	1782	1825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	4.4
10°-20°	391.8	12.4
20°-30°	578.4	18.2
30°-40°	647.2	20.4
40°-50°	568.3	17.9
50°-60°	402.1	12.7
60°-70°	234.1	7.4
70°-80°	145.9	4.6
80°-90°	65.3	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°	1108.3	34.9
0°-40°	1755.4	55.4
0°-60°	2725.8	86.0
0°-90°	3171.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3171.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1455	1451	1451	1459	1463	138
15°	1377	1380	1386	1401	1410	388
25°	1228	1233	1253	1283	1299	564
35°	1008	1012	1036	1067	1088	627
45°	710	719	736	754	763	550
55°	438	447	444	452	460	396
65°	252	232	208	226	254	256
75°	166	143	124	127	146	173
85°	73	76	58	56	59	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1461.7	1461.7	1461.7	1461.7	1461.7
2.5°	1461.7	1458.8	1457.2	1462.5	1465.4
5°	1455.1	1451.3	1451.3	1458.8	1463.3
7.5°	1443.3	1439.6	1443.9	1450.6	1455.1
10°	1426.3	1424.7	1427.7	1436.7	1442.5
12.5°	1404.0	1404.8	1407.7	1421.8	1429.2
15°	1376.6	1379.5	1386.4	1401.1	1409.9
17.5°	1347.1	1349.4	1359.6	1376.6	1389.3
20°	1311.7	1316.0	1328.7	1350.0	1362.7
22.5°	1272.3	1277.6	1293.1	1319.1	1334.6
25°	1228.1	1233.2	1253.2	1282.7	1299.1
27.5°	1177.9	1185.9	1208.2	1240.7	1262.8
30°	1124.6	1131.3	1156.3	1193.3	1211.9
32.5°	1067.7	1075.7	1099.4	1134.8	1151.3
35°	1007.7	1012.2	1035.8	1066.9	1088.3
37.5°	939.8	941.9	964.0	993.0	1012.2
40°	866.6	868.0	887.9	915.3	932.3
42.5°	790.3	791.1	812.6	833.2	848.0
45°	710.5	718.7	736.3	754.1	762.9
47.5°	638.7	644.8	661.0	676.5	684.7
50°	564.2	578.9	590.0	598.2	607.8
52.5°	499.8	512.3	515.3	524.9	533.1
55°	437.6	446.6	443.7	451.7	459.9
57.5°	385.2	380.7	371.1	385.2	395.6
60°	335.7	323.8	307.5	326.9	342.3
62.5°	291.3	272.1	252.2	271.3	297.2
65°	252.2	232.2	207.8	226.3	253.5
67.5°	222.6	201.9	172.9	191.5	218.9
70°	200.3	179.0	149.3	164.9	189.4
72.5°	182.7	159.6	133.8	144.2	164.9
75°	165.7	142.6	124.2	127.2	146.3
77.5°	145.7	128.7	113.9	112.3	127.2
80°	122.1	116.8	99.0	96.8	105.1
82.5°	100.6	98.4	81.4	79.0	82.2
85°	73.2	76.1	57.7	56.1	59.1
87.5°	38.5	42.1	30.3	31.9	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)