

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: P476100

Luminaire Tested: **22GR-LD5-32-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476100
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-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: 3348.5 lumens
Efficiency: N/A
Efficacy: 133.9 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

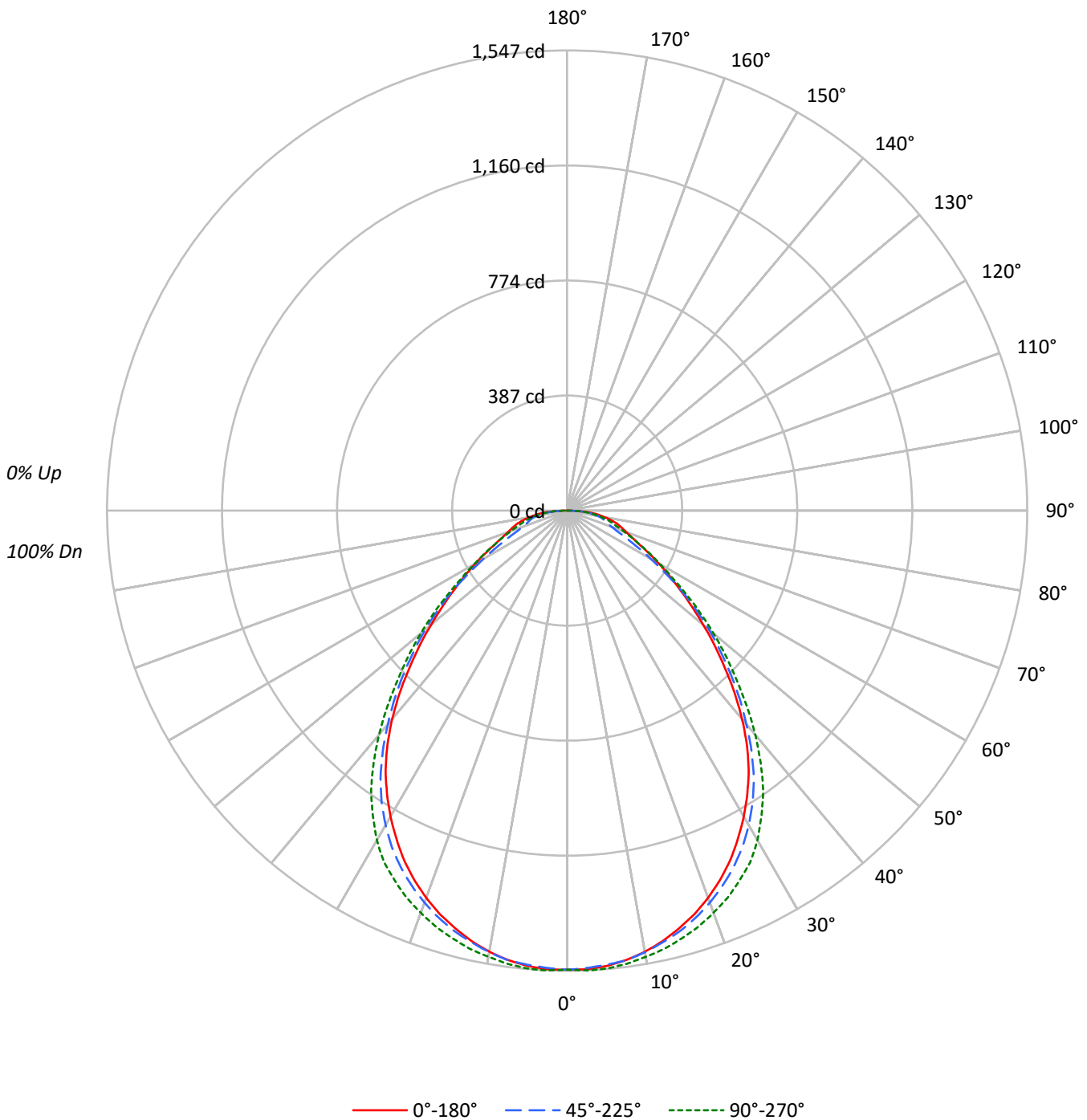
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4154	4154	4154
5°	4150	4140	4174
10°	4115	4120	4162
15°	4050	4079	4148
20°	3966	4018	4121
25°	3851	3929	4073
30°	3690	3794	3976
35°	3496	3593	3775
40°	3215	3294	3458
45°	2855	2959	3066
50°	2494	2608	2687
55°	2168	2198	2279
60°	1908	1748	1946
65°	1696	1397	1705
70°	1664	1240	1574
75°	1820	1364	1606
80°	1998	1619	1719
85°	2387	1880	1927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	4.4
10°-20°	413.7	12.4
20°-30°	610.7	18.2
30°-40°	683.4	20.4
40°-50°	600.1	17.9
50°-60°	424.6	12.7
60°-70°	247.2	7.4
70°-80°	154.0	4.6
80°-90°	68.9	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°	1170.3	34.9
0°-40°	1853.6	55.4
0°-60°	2878.4	86.0
0°-90°	3348.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3348.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1536	1533	1533	1540	1545	146
15°	1454	1457	1464	1480	1489	410
25°	1297	1302	1323	1354	1372	596
35°	1064	1069	1094	1127	1149	662
45°	750	759	778	796	806	580
55°	462	472	468	477	486	418
65°	266	245	219	239	268	270
75°	175	151	131	134	154	183
85°	77	80	61	59	62	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.5	1543.5	1543.5	1543.5	1543.5
2.5°	1543.5	1540.4	1538.8	1544.3	1547.4
5°	1536.5	1532.6	1532.6	1540.4	1545.2
7.5°	1524.1	1520.2	1524.7	1531.7	1536.5
10°	1506.1	1504.5	1507.6	1517.1	1523.3
12.5°	1482.6	1483.4	1486.5	1501.4	1509.2
15°	1453.6	1456.7	1464.0	1479.5	1488.8
17.5°	1422.5	1424.9	1435.7	1453.6	1467.1
20°	1385.1	1389.6	1403.0	1425.6	1439.0
22.5°	1343.5	1349.1	1365.4	1392.9	1409.2
25°	1296.9	1302.2	1323.3	1354.5	1371.8
27.5°	1243.8	1252.2	1275.8	1310.1	1333.4
30°	1187.6	1194.6	1221.0	1260.1	1279.7
32.5°	1127.5	1135.9	1160.9	1198.3	1215.7
35°	1064.1	1068.8	1093.8	1126.6	1149.2
37.5°	992.4	994.6	1018.0	1048.6	1068.8
40°	915.1	916.6	937.6	966.5	984.5
42.5°	834.5	835.4	858.1	879.8	895.5
45°	750.3	758.9	777.5	796.3	805.6
47.5°	674.5	680.9	698.0	714.3	723.0
50°	595.8	611.2	623.0	631.7	641.8
52.5°	527.8	541.0	544.1	554.2	562.9
55°	462.1	471.6	468.5	477.0	485.7
57.5°	406.7	402.0	391.9	406.7	417.7
60°	354.5	341.9	324.7	345.2	361.5
62.5°	307.6	287.3	266.3	286.5	313.8
65°	266.3	245.2	219.4	239.0	267.7
67.5°	235.1	213.2	182.6	202.2	231.2
70°	211.5	189.0	157.6	174.1	200.0
72.5°	192.9	168.6	141.3	152.2	174.1
75°	175.0	150.6	131.2	134.3	154.5
77.5°	153.9	135.9	120.2	118.6	134.3
80°	128.9	123.3	104.5	102.3	110.9
82.5°	106.2	103.9	85.9	83.5	86.8
85°	77.3	80.4	60.9	59.3	62.4
87.5°	40.7	44.4	32.0	33.7	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)