

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: P476334

Luminaire Tested: **14GR-LD5-32-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476334
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-A125-UNV-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3327.1 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

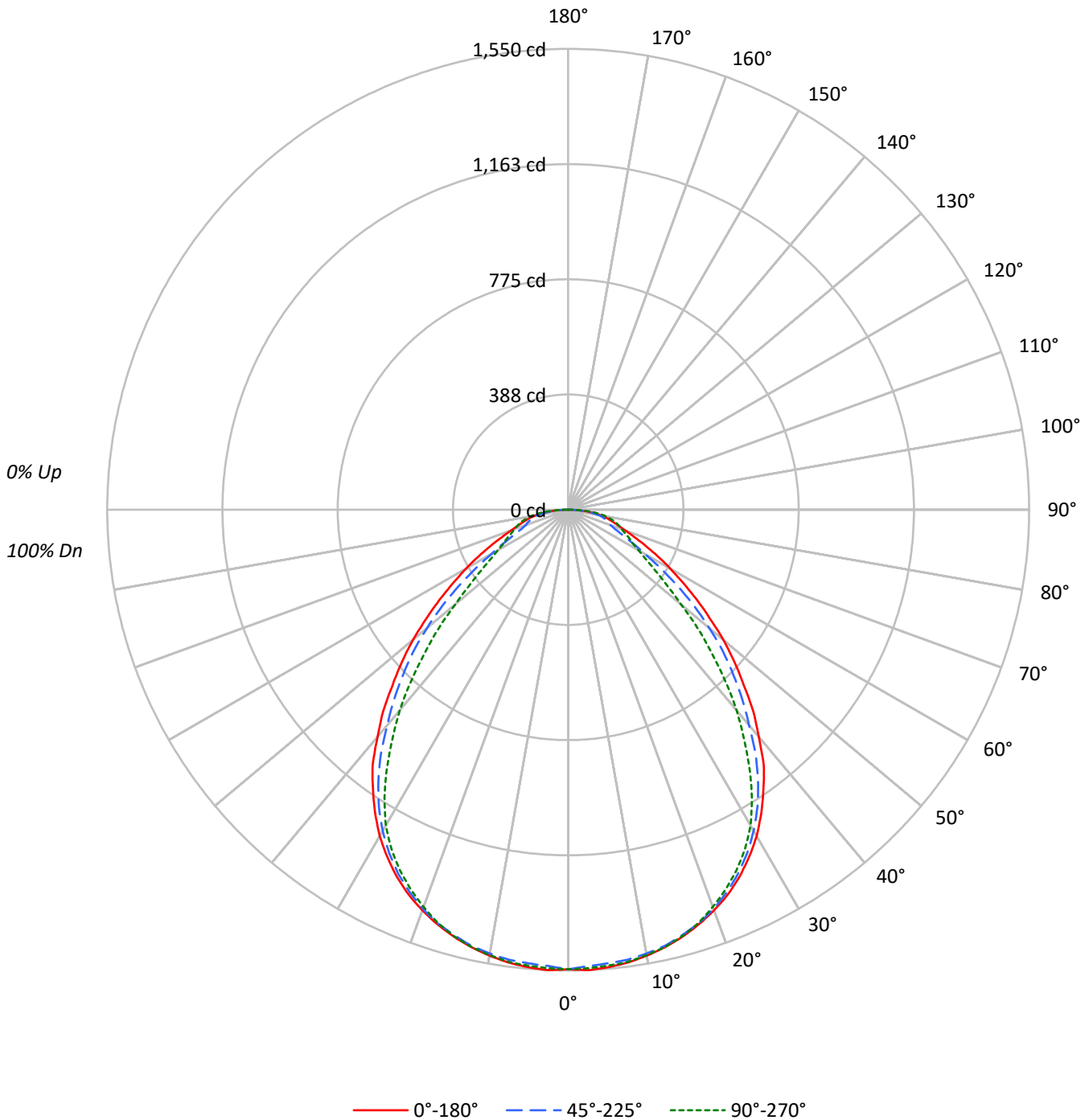
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476334

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476334

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L840-CD1-U

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4159	4159	4159
5°	4173	4138	4158
10°	4162	4143	4156
15°	4142	4127	4136
20°	4107	4092	4072
25°	4045	4013	3974
30°	3938	3875	3810
35°	3762	3658	3492
40°	3501	3325	3096
45°	3181	2990	2595
50°	2848	2596	2069
55°	2474	2118	1680
60°	2134	1602	1465
65°	1827	1280	1438
70°	1612	1192	1509
75°	1607	1366	1721
80°	1737	1593	1977
85°	1862	1695	2269



TEST NUMBER: P476334

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	4.4
10°-20°	418.8	12.6
20°-30°	621.3	18.7
30°-40°	690.0	20.7
40°-50°	595.1	17.9
50°-60°	403.5	12.1
60°-70°	233.3	7.0
70°-80°	152.3	4.6
80°-90°	66.4	2.0
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°	1186.4	35.7
0°-40°	1876.4	56.4
0°-60°	2875.1	86.4
0°-90°	3327.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3327.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1546	1546	1546	1546	1546	
5°	1545	1539	1532	1542	1539	147
15°	1487	1484	1481	1492	1484	419
25°	1362	1361	1352	1348	1338	626
35°	1145	1134	1113	1082	1063	714
45°	836	823	786	721	682	646
55°	527	516	452	384	358	474
65°	287	254	201	206	226	289
75°	155	140	131	147	166	165
85°	60	59	55	76	74	64
90°	0	0	0	0	0	



TEST NUMBER: P476334

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1545.6	1545.6	1545.6	1545.6	1545.6
2.5°	1550.2	1544.8	1536.3	1545.6	1543.3
5°	1544.8	1538.7	1531.7	1542.5	1539.4
7.5°	1536.3	1530.1	1526.3	1535.6	1534.0
10°	1523.2	1518.5	1516.2	1527.8	1520.9
12.5°	1507.0	1503.1	1502.3	1511.6	1506.2
15°	1486.8	1483.8	1481.4	1491.5	1484.5
17.5°	1462.1	1460.6	1459.0	1463.7	1457.5
20°	1434.3	1432.7	1428.9	1429.6	1421.9
22.5°	1401.8	1400.2	1392.5	1391.0	1382.5
25°	1362.4	1360.8	1351.5	1347.7	1338.4
27.5°	1317.5	1318.3	1302.8	1295.9	1287.4
30°	1267.3	1264.2	1247.2	1235.6	1226.3
32.5°	1208.5	1204.6	1184.5	1166.0	1149.7
35°	1145.1	1134.3	1113.4	1082.5	1063.1
37.5°	1080.1	1065.5	1034.5	995.1	969.6
40°	996.6	981.2	946.4	901.5	881.4
42.5°	921.6	905.4	866.7	814.2	782.5
45°	835.8	822.7	785.6	720.6	682.0
47.5°	757.7	743.8	705.9	629.4	591.5
50°	680.4	664.9	620.1	537.4	494.1
52.5°	600.0	591.5	536.6	453.9	419.1
55°	527.3	516.5	451.5	384.3	358.0
57.5°	457.7	439.9	369.6	319.3	309.3
60°	396.6	371.9	297.7	269.8	272.2
62.5°	338.7	309.3	244.3	231.2	244.3
65°	286.9	254.4	201.0	205.7	225.8
67.5°	241.2	210.3	170.9	189.4	206.4
70°	204.9	179.4	151.5	172.4	191.8
72.5°	175.5	158.5	142.3	158.5	179.4
75°	154.6	139.9	131.4	146.9	165.5
77.5°	135.3	123.7	119.8	132.2	147.7
80°	112.1	106.7	102.8	119.1	127.6
82.5°	86.6	84.3	81.2	101.3	105.2
85°	60.3	58.8	54.9	76.5	73.5
87.5°	31.7	30.2	27.8	40.2	36.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)