

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: P476318

Luminaire Tested: **14GR-LD5-40-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476318
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A125-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3848.4 lumens
Efficiency: N/A
Efficacy: 123.0 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

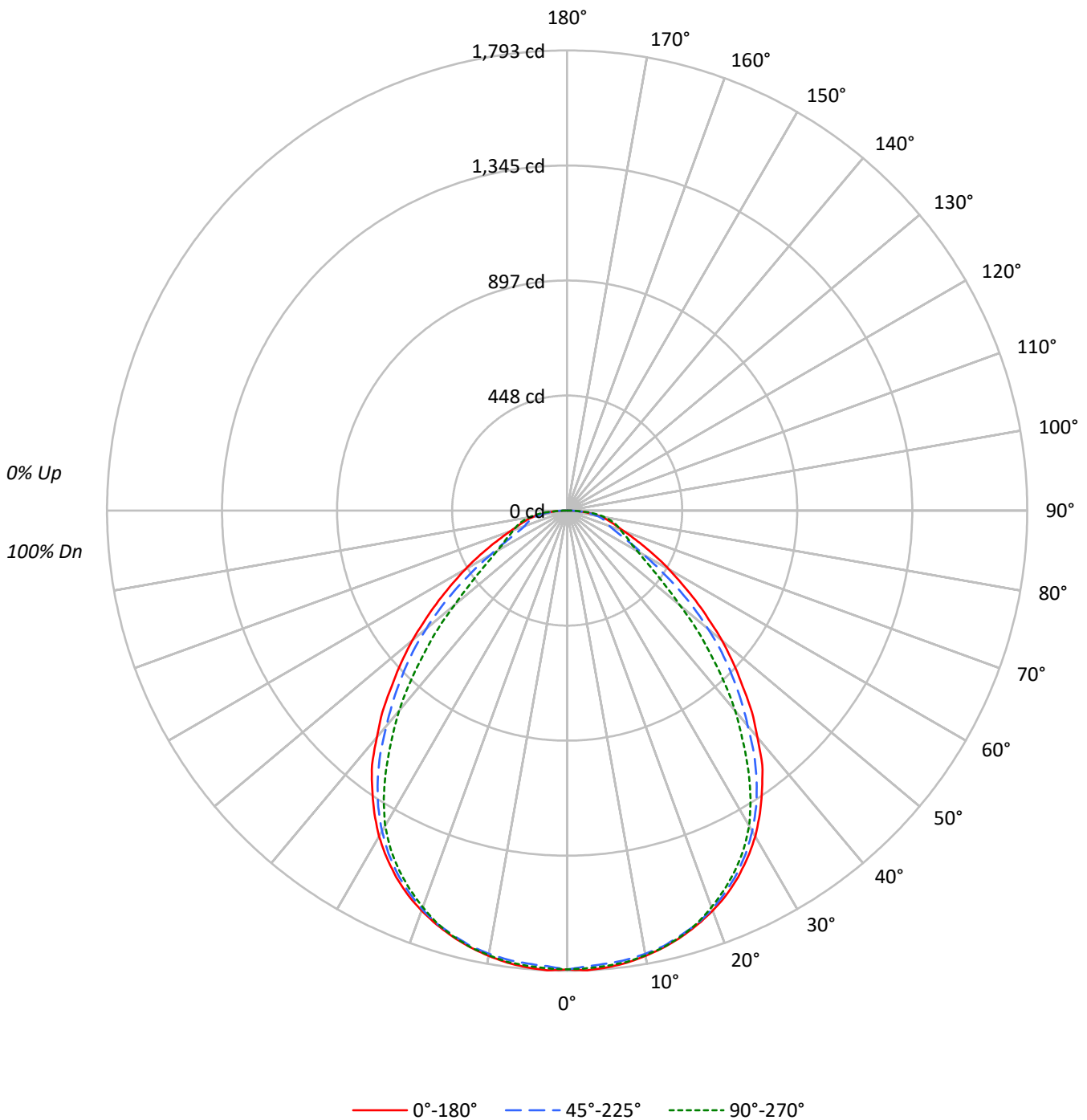
Input Watts (W): 31.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476318

CATALOG NUMBER: 14GR-LD5-40-A125-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476318

CATALOG NUMBER: 14GR-LD5-40-A125-UNV-L830-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°	4811	4811	4811
5°	4827	4786	4810
10°	4814	4792	4807
15°	4791	4774	4784
20°	4751	4733	4710
25°	4679	4642	4597
30°	4555	4483	4407
35°	4351	4231	4040
40°	4050	3845	3581
45°	3679	3458	3002
50°	3295	3003	2393
55°	2861	2450	1943
60°	2469	1853	1694
65°	2113	1480	1663
70°	1865	1379	1745
75°	1860	1580	1990
80°	2010	1843	2287
85°	2155	1961	2624



TEST NUMBER: P476318

CATALOG NUMBER: 14GR-LD5-40-A125-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	4.4
10°-20°	484.4	12.6
20°-30°	718.7	18.7
30°-40°	798.1	20.7
40°-50°	688.3	17.9
50°-60°	466.8	12.1
60°-70°	269.9	7.0
70°-80°	176.2	4.6
80°-90°	76.8	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°	1372.3	35.7
0°-40°	2170.4	56.4
0°-60°	3325.5	86.4
0°-90°	3848.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3848.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1787	1780	1772	1784	1781	170
15°	1720	1716	1714	1725	1717	485
25°	1576	1574	1563	1559	1548	724
35°	1324	1312	1288	1252	1230	826
45°	967	952	909	834	789	747
55°	610	597	522	444	414	548
65°	332	294	232	238	261	334
75°	179	162	152	170	191	190
85°	70	68	64	88	85	74
90°	0	0	0	0	0	



TEST NUMBER: P476318

CATALOG NUMBER: 14GR-LD5-40-A125-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1787.8	1787.8	1787.8	1787.8	1787.8
2.5°	1793.1	1786.9	1777.0	1787.8	1785.1
5°	1786.9	1779.7	1771.7	1784.2	1780.6
7.5°	1777.0	1769.9	1765.4	1776.1	1774.4
10°	1761.8	1756.5	1753.8	1767.2	1759.2
12.5°	1743.1	1738.6	1737.7	1748.4	1742.2
15°	1719.8	1716.2	1713.5	1725.2	1717.1
17.5°	1691.2	1689.4	1687.6	1693.0	1685.8
20°	1659.0	1657.2	1652.7	1653.6	1644.7
22.5°	1621.4	1619.6	1610.7	1608.9	1599.1
25°	1575.8	1574.0	1563.3	1558.8	1548.1
27.5°	1523.9	1524.8	1506.9	1498.9	1489.1
30°	1465.8	1462.2	1442.6	1429.1	1418.4
32.5°	1397.8	1393.4	1370.1	1348.7	1329.9
35°	1324.5	1312.0	1287.8	1252.1	1229.7
37.5°	1249.4	1232.4	1196.6	1151.0	1121.5
40°	1152.8	1134.9	1094.7	1042.8	1019.5
42.5°	1066.0	1047.3	1002.5	941.7	905.1
45°	966.8	951.6	908.6	833.5	788.8
47.5°	876.4	860.3	816.5	728.0	684.2
50°	787.0	769.1	717.3	621.6	571.5
52.5°	694.0	684.2	620.7	525.0	484.7
55°	609.9	597.4	522.3	444.5	414.1
57.5°	529.4	508.9	427.5	369.4	357.7
60°	458.8	430.2	344.3	312.1	314.8
62.5°	391.7	357.7	282.6	267.4	282.6
65°	331.8	294.2	232.5	237.9	261.1
67.5°	279.0	243.3	197.6	219.1	238.8
70°	237.0	207.5	175.3	199.4	221.8
72.5°	203.0	183.3	164.6	183.3	207.5
75°	178.9	161.9	152.0	169.9	191.4
77.5°	156.5	143.1	138.6	152.9	170.8
80°	129.7	123.4	118.9	137.7	147.6
82.5°	100.2	97.5	93.9	117.2	121.6
85°	69.8	68.0	63.5	88.5	85.0
87.5°	36.7	34.9	32.2	46.5	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)