

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: P476199

Luminaire Tested: **14GR-LD5-32-F1-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476199
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-F1-UNV-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ F1 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3317.6 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.2
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

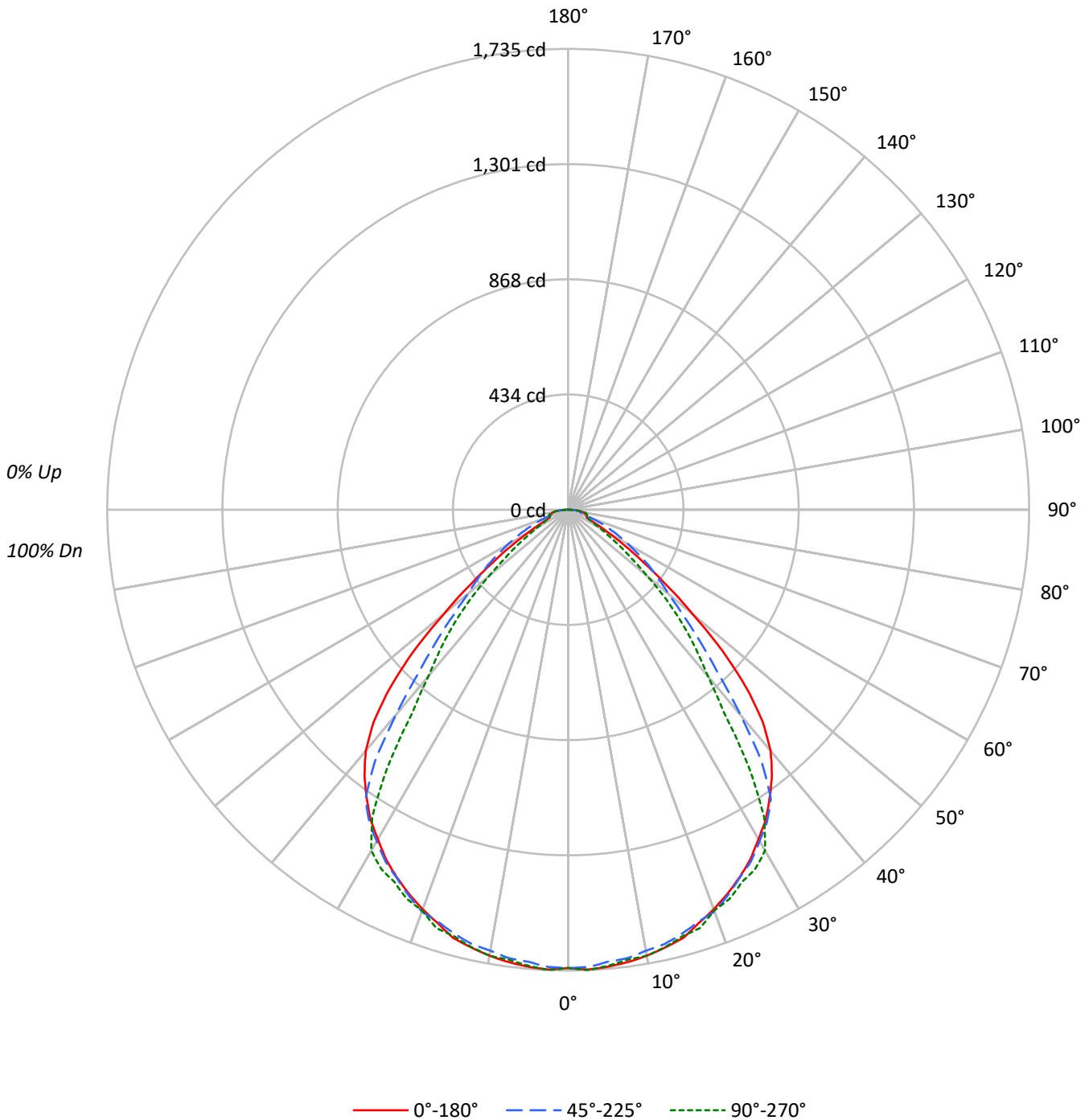
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476199

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476199

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L850-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	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					100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77					77			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68					68			
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61					61			
5	82	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54					54			
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44					44			
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40					40			
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4643	4643	4643
5°	4666	4616	4656
10°	4659	4608	4659
15°	4652	4605	4631
20°	4584	4611	4601
25°	4533	4538	4594
30°	4449	4478	4605
35°	4344	4368	3905
40°	4162	3543	2871
45°	3612	2672	2318
50°	2566	2053	1625
55°	1629	1760	1089
60°	960	1410	720
65°	567	1100	556
70°	585	745	570
75°	714	579	753
80°	921	719	1007
85°	976	976	976



TEST NUMBER: P476199

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	4.9
10°-20°	468.5	14.1
20°-30°	708.5	21.4
30°-40°	789.0	23.8
40°-50°	577.5	17.4
50°-60°	318.3	9.6
60°-70°	162.8	4.9
70°-80°	92.6	2.8
80°-90°	36.9	1.1
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°	1340.6	40.4
0°-40°	2129.6	64.2
0°-60°	3025.4	91.2
0°-90°	3317.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3317.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1725	1725	1725	1725	1725	
5°	1727	1727	1709	1720	1724	164
15°	1670	1651	1653	1673	1662	469
25°	1527	1523	1528	1554	1547	703
35°	1322	1324	1330	1239	1189	825
45°	949	875	702	639	609	714
55°	347	409	375	321	232	325
65°	89	212	173	165	87	103
75°	69	119	56	106	72	72
85°	32	39	32	43	32	34
90°	0	0	0	0	0	



TEST NUMBER: P476199

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.4	1725.4	1725.4	1725.4	1725.4
2.5°	1732.8	1732.8	1723.5	1734.7	1734.7
5°	1727.2	1727.2	1708.7	1719.8	1723.5
7.5°	1718.0	1718.0	1703.1	1712.4	1708.7
10°	1705.0	1695.7	1686.4	1712.4	1705.0
12.5°	1688.2	1669.7	1675.2	1673.4	1686.4
15°	1669.7	1651.1	1652.9	1673.4	1662.2
17.5°	1632.5	1634.4	1626.9	1641.8	1651.1
20°	1600.9	1606.5	1610.2	1619.5	1606.5
22.5°	1565.7	1567.5	1571.2	1584.2	1586.1
25°	1526.7	1522.9	1528.5	1554.5	1547.1
27.5°	1483.9	1482.1	1491.4	1513.7	1524.8
30°	1431.9	1439.4	1441.2	1482.1	1482.1
32.5°	1383.6	1383.6	1392.9	1413.4	1372.5
35°	1322.4	1324.2	1329.8	1238.8	1188.6
37.5°	1259.2	1253.6	1196.1	1030.8	963.9
40°	1184.9	1171.9	1008.5	859.9	817.2
42.5°	1082.8	1043.8	832.0	742.9	711.3
45°	949.1	874.8	702.0	638.9	609.2
47.5°	789.3	720.6	583.2	540.5	499.6
50°	612.9	598.0	490.3	453.2	388.2
52.5°	466.2	495.9	430.9	382.6	299.0
55°	347.3	408.6	375.2	321.3	232.2
57.5°	254.4	339.9	315.7	273.0	174.6
60°	178.3	287.9	261.9	230.3	133.7
62.5°	126.3	248.9	215.4	196.9	102.1
65°	89.1	211.7	172.7	165.3	87.3
67.5°	74.3	178.3	131.9	146.7	74.3
70°	74.3	148.6	94.7	130.0	72.4
72.5°	74.3	130.0	70.6	118.9	76.1
75°	68.7	118.9	55.7	105.9	72.4
77.5°	63.1	100.3	48.3	91.0	70.6
80°	59.4	72.4	46.4	74.3	65.0
82.5°	48.3	52.0	42.7	57.6	50.1
85°	31.6	39.0	31.6	42.7	31.6
87.5°	14.9	20.4	14.9	18.6	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)