

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: P476345

Luminaire Tested: **14GR-LD5-40-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476345
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-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4067.8 lumens
Efficiency: N/A
Efficacy: 130.0 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

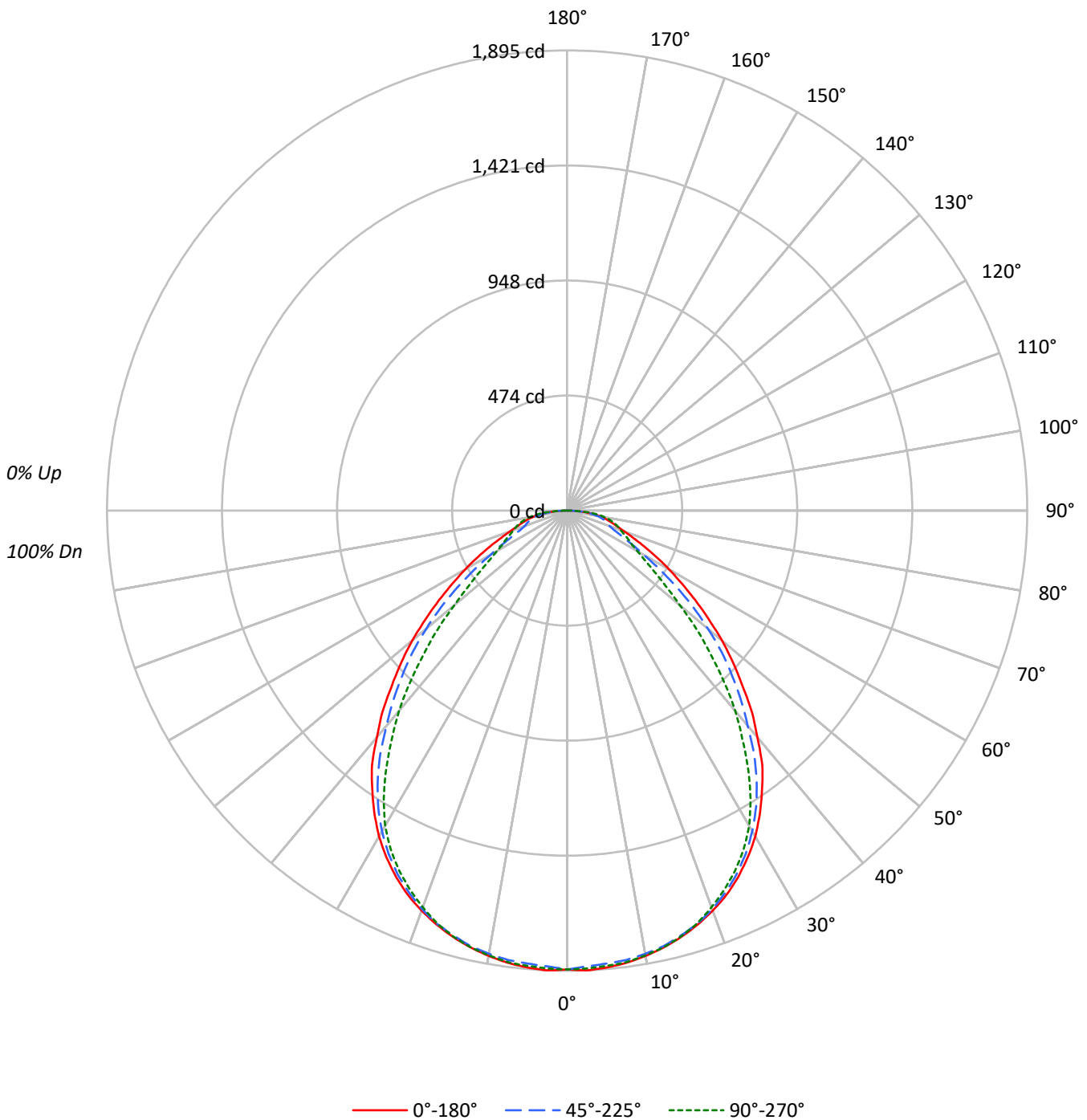
Input Watts (W): 31.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5085	5085	5085
5°	5102	5058	5084
10°	5089	5065	5081
15°	5064	5046	5056
20°	5021	5003	4978
25°	4945	4906	4858
30°	4814	4738	4659
35°	4599	4472	4270
40°	4280	4065	3785
45°	3889	3655	3173
50°	3483	3174	2529
55°	3025	2590	2054
60°	2610	1958	1791
65°	2233	1565	1757
70°	1971	1458	1844
75°	1966	1671	2103
80°	2125	1948	2417
85°	2276	2072	2773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	4.4
10°-20°	512.0	12.6
20°-30°	759.6	18.7
30°-40°	843.6	20.7
40°-50°	727.6	17.9
50°-60°	493.4	12.1
60°-70°	285.3	7.0
70°-80°	186.2	4.6
80°-90°	81.2	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°	1450.5	35.7
0°-40°	2294.1	56.4
0°-60°	3515.1	86.4
0°-90°	4067.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1890	1890	1890	1890	1890	
5°	1889	1881	1873	1886	1882	179
15°	1818	1814	1811	1824	1815	513
25°	1666	1664	1652	1648	1636	766
35°	1400	1387	1361	1323	1300	873
45°	1022	1006	960	881	834	790
55°	645	632	552	470	438	579
65°	351	311	246	252	276	353
75°	189	171	161	180	202	201
85°	74	72	67	94	90	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1889.7	1889.7	1889.7	1889.7	1889.7
2.5°	1895.3	1888.7	1878.3	1889.7	1886.8
5°	1888.7	1881.2	1872.6	1885.9	1882.1
7.5°	1878.3	1870.8	1866.0	1877.4	1875.5
10°	1862.3	1856.6	1853.7	1867.9	1859.4
12.5°	1842.4	1837.7	1836.7	1848.1	1841.5
15°	1817.8	1814.0	1811.2	1823.5	1815.0
17.5°	1787.6	1785.7	1783.8	1789.5	1781.9
20°	1753.5	1751.6	1746.9	1747.9	1738.4
22.5°	1713.8	1711.9	1702.5	1700.6	1690.2
25°	1665.6	1663.7	1652.4	1647.7	1636.3
27.5°	1610.8	1611.7	1592.8	1584.3	1573.9
30°	1549.4	1545.6	1524.8	1510.6	1499.3
32.5°	1477.5	1472.8	1448.2	1425.5	1405.7
35°	1400.0	1386.8	1361.2	1323.4	1299.8
37.5°	1320.6	1302.6	1264.8	1216.6	1185.4
40°	1218.5	1199.6	1157.1	1102.2	1077.6
42.5°	1126.8	1107.0	1059.7	995.4	956.6
45°	1021.9	1005.8	960.4	881.0	833.8
47.5°	926.4	909.4	863.1	769.5	723.2
50°	831.9	813.0	758.1	657.0	604.0
52.5°	733.6	723.2	656.0	554.9	512.4
55°	644.7	631.5	552.1	469.8	437.7
57.5°	559.6	537.9	451.9	390.4	378.1
60°	484.9	454.7	363.9	329.9	332.7
62.5°	414.0	378.1	298.7	282.6	298.7
65°	350.7	311.0	245.8	251.5	276.0
67.5°	294.9	257.1	208.9	231.6	252.4
70°	250.5	219.3	185.3	210.8	234.4
72.5°	214.6	193.8	173.9	193.8	219.3
75°	189.1	171.1	160.7	179.6	202.3
77.5°	165.4	151.2	146.5	161.6	180.6
80°	137.1	130.5	125.7	145.6	156.0
82.5°	105.9	103.0	99.3	123.8	128.6
85°	73.7	71.8	67.1	93.6	89.8
87.5°	38.8	36.9	34.0	49.2	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)