

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: P476336

Luminaire Tested: **14GR-LD5-40-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476336  
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-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: 4063.8 lumens  
Efficiency: N/A  
Efficacy: 129.8 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

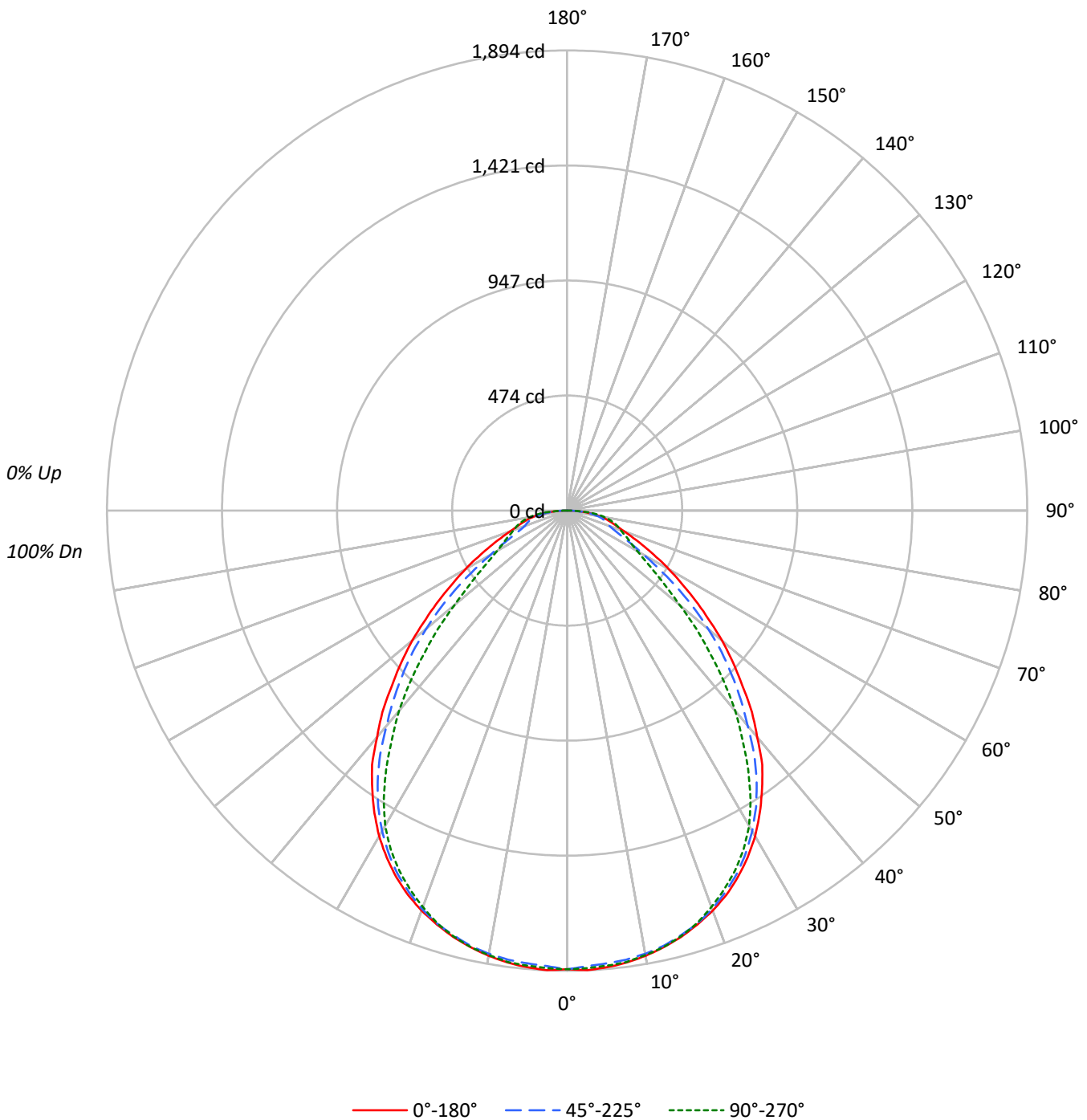
Input Watts (W): 31.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5080	5080	5080
5°	5097	5054	5079
10°	5084	5060	5076
15°	5059	5041	5051
20°	5017	4998	4973
25°	4941	4902	4854
30°	4809	4733	4654
35°	4595	4467	4266
40°	4276	4060	3782
45°	3885	3651	3170
50°	3479	3171	2527
55°	3022	2587	2051
60°	2608	1957	1789
65°	2231	1563	1756
70°	1969	1456	1843
75°	1964	1669	2101
80°	2122	1946	2414
85°	2276	2072	2770



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.7	4.4
10°-20°	511.5	12.6
20°-30°	758.9	18.7
30°-40°	842.8	20.7
40°-50°	726.8	17.9
50°-60°	492.9	12.1
60°-70°	285.0	7.0
70°-80°	186.0	4.6
80°-90°	81.1	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°	1449.1	35.7
0°-40°	2291.9	56.4
0°-60°	3511.6	86.4
0°-90°	4063.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4063.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1887	1879	1871	1884	1880	179
15°	1816	1812	1809	1822	1813	512
25°	1664	1662	1651	1646	1635	765
35°	1399	1385	1360	1322	1298	872
45°	1021	1005	960	880	833	789
55°	644	631	552	469	437	579
65°	350	311	246	251	276	352
75°	189	171	160	179	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°	1887.8	1887.8	1887.8	1887.8	1887.8
2.5°	1893.5	1886.9	1876.5	1887.8	1885.0
5°	1886.9	1879.3	1870.8	1884.0	1880.3
7.5°	1876.5	1868.9	1864.2	1875.5	1873.6
10°	1860.4	1854.8	1851.9	1866.1	1857.6
12.5°	1840.6	1835.9	1834.9	1846.3	1839.6
15°	1816.0	1812.3	1809.4	1821.7	1813.2
17.5°	1785.8	1783.9	1782.0	1787.7	1780.2
20°	1751.8	1749.9	1745.2	1746.2	1736.7
22.5°	1712.2	1710.3	1700.8	1698.9	1688.5
25°	1664.0	1662.1	1650.8	1646.1	1634.7
27.5°	1609.2	1610.2	1591.3	1582.8	1572.4
30°	1547.8	1544.1	1523.3	1509.1	1497.8
32.5°	1476.1	1471.3	1446.8	1424.1	1404.3
35°	1398.6	1385.4	1359.9	1322.1	1298.5
37.5°	1319.3	1301.4	1263.6	1215.4	1184.2
40°	1217.3	1198.4	1155.9	1101.1	1076.6
42.5°	1125.7	1105.9	1058.6	994.4	955.7
45°	1020.9	1004.8	959.5	880.2	832.9
47.5°	925.5	908.5	862.2	768.7	722.4
50°	831.1	812.2	757.4	656.3	603.5
52.5°	732.8	722.4	655.4	554.3	511.9
55°	644.1	630.8	551.5	469.4	437.2
57.5°	559.1	537.4	451.4	390.0	377.8
60°	484.5	454.2	363.6	329.6	332.4
62.5°	413.6	377.8	298.4	282.4	298.4
65°	350.4	310.7	245.5	251.2	275.8
67.5°	294.6	256.9	208.7	231.4	252.1
70°	250.3	219.1	185.1	210.6	234.2
72.5°	214.4	193.6	173.8	193.6	219.1
75°	188.9	170.9	160.5	179.4	202.1
77.5°	165.3	151.1	146.4	161.5	180.4
80°	136.9	130.3	125.6	145.4	155.8
82.5°	105.8	102.9	99.2	123.7	128.4
85°	73.7	71.8	67.1	93.5	89.7
87.5°	38.7	36.8	34.0	49.1	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)