

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: P476327

Luminaire Tested: **14GR-LD5-40-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476327  
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-L835-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3988.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 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

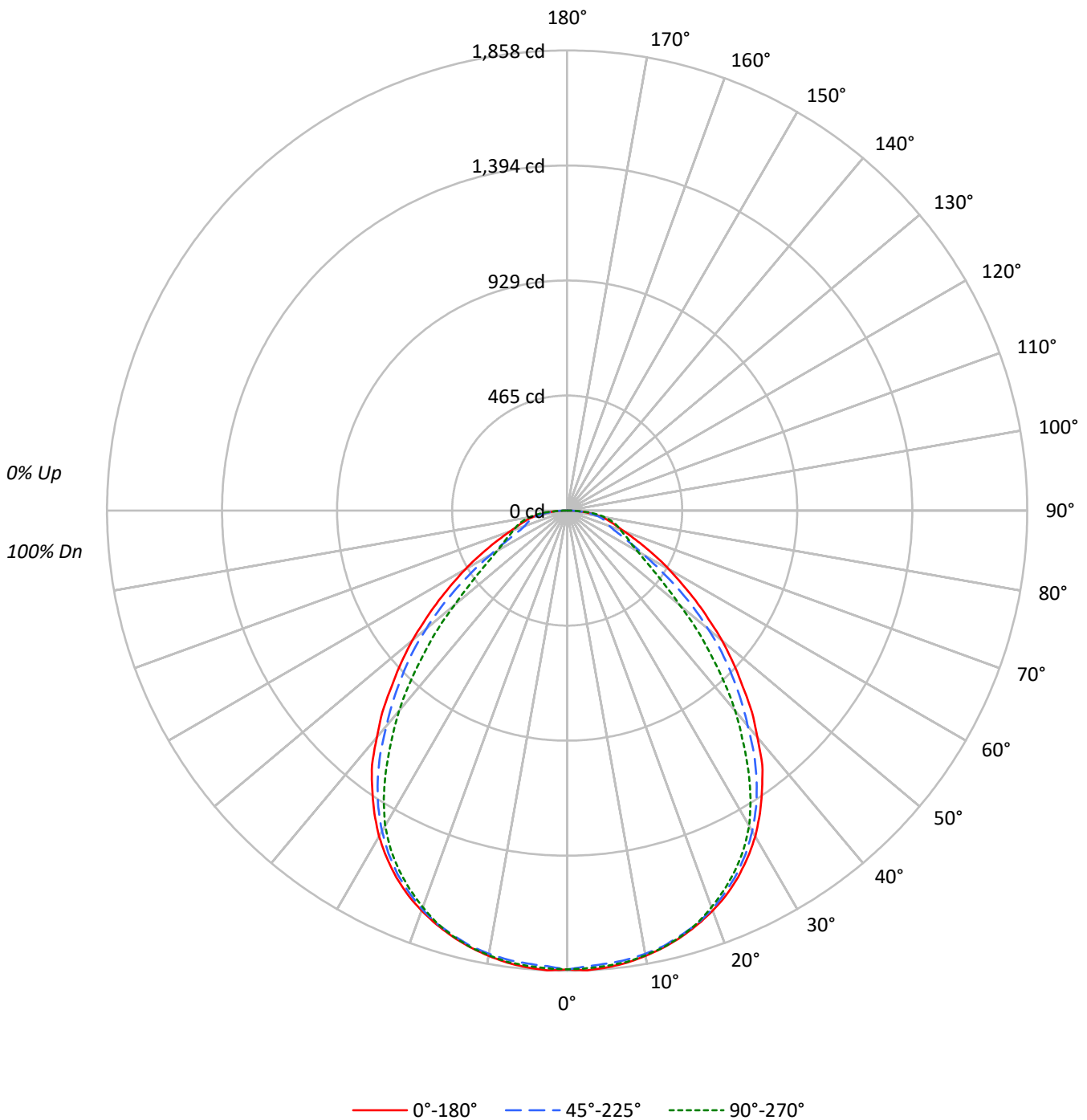
Input Watts (W): 31.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30					30			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4985	4985	4985
5°	5002	4959	4984
10°	4989	4966	4981
15°	4965	4947	4957
20°	4923	4905	4881
25°	4849	4810	4763
30°	4720	4645	4567
35°	4509	4384	4186
40°	4196	3985	3711
45°	3812	3583	3111
50°	3414	3112	2479
55°	2966	2539	2013
60°	2559	1920	1756
65°	2189	1535	1723
70°	1932	1429	1808
75°	1928	1639	2062
80°	2083	1911	2369
85°	2232	2032	2717



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.4	4.4
10°-20°	501.9	12.6
20°-30°	744.8	18.7
30°-40°	827.0	20.7
40°-50°	713.3	17.9
50°-60°	483.7	12.1
60°-70°	279.7	7.0
70°-80°	182.6	4.6
80°-90°	79.6	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°	1422.1	35.7
0°-40°	2249.2	56.4
0°-60°	3446.1	86.4
0°-90°	3988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3988.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1853	1853	1853	1853	1853	
5°	1852	1844	1836	1849	1845	176
15°	1782	1778	1776	1788	1779	503
25°	1633	1631	1620	1615	1604	751
35°	1372	1360	1334	1298	1274	856
45°	1002	986	942	864	817	774
55°	632	619	541	461	429	568
65°	344	305	241	246	271	346
75°	185	168	158	176	198	197
85°	72	70	66	92	88	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1852.6	1852.6	1852.6	1852.6	1852.6
2.5°	1858.2	1851.7	1841.5	1852.6	1849.8
5°	1851.7	1844.3	1835.9	1848.9	1845.2
7.5°	1841.5	1834.1	1829.4	1840.6	1838.7
10°	1825.7	1820.2	1817.4	1831.3	1823.0
12.5°	1806.3	1801.6	1800.7	1811.8	1805.3
15°	1782.2	1778.5	1775.7	1787.7	1779.4
17.5°	1752.5	1750.7	1748.8	1754.4	1747.0
20°	1719.2	1717.3	1712.7	1713.6	1704.3
22.5°	1680.2	1678.4	1669.1	1667.3	1657.1
25°	1633.0	1631.1	1620.0	1615.4	1604.2
27.5°	1579.2	1580.1	1561.6	1553.3	1543.1
30°	1519.0	1515.3	1494.9	1481.0	1469.9
32.5°	1448.5	1443.9	1419.8	1397.6	1378.1
35°	1372.5	1359.6	1334.5	1297.5	1274.3
37.5°	1294.7	1277.1	1240.0	1192.8	1162.2
40°	1194.6	1176.1	1134.4	1080.6	1056.5
42.5°	1104.7	1085.2	1038.9	975.9	937.9
45°	1001.8	986.1	941.6	863.7	817.4
47.5°	908.2	891.6	846.1	754.4	709.0
50°	815.6	797.0	743.3	644.1	592.2
52.5°	719.2	709.0	643.2	544.0	502.3
55°	632.1	619.1	541.2	460.6	429.1
57.5°	548.6	527.3	443.0	382.8	370.7
60°	475.4	445.8	356.8	323.4	326.2
62.5°	405.9	370.7	292.9	277.1	292.9
65°	343.8	304.9	241.0	246.5	270.6
67.5°	289.2	252.1	204.8	227.1	247.4
70°	245.6	215.0	181.6	206.7	229.8
72.5°	210.4	190.0	170.5	190.0	215.0
75°	185.4	167.7	157.6	176.1	198.3
77.5°	162.2	148.3	143.6	158.5	177.0
80°	134.4	127.9	123.3	142.7	152.9
82.5°	103.8	101.0	97.3	121.4	126.0
85°	72.3	70.4	65.8	91.8	88.0
87.5°	38.0	36.1	33.4	48.2	43.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)