

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: P476309

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

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476309  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-40-A-UNV-L850-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3929.9 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

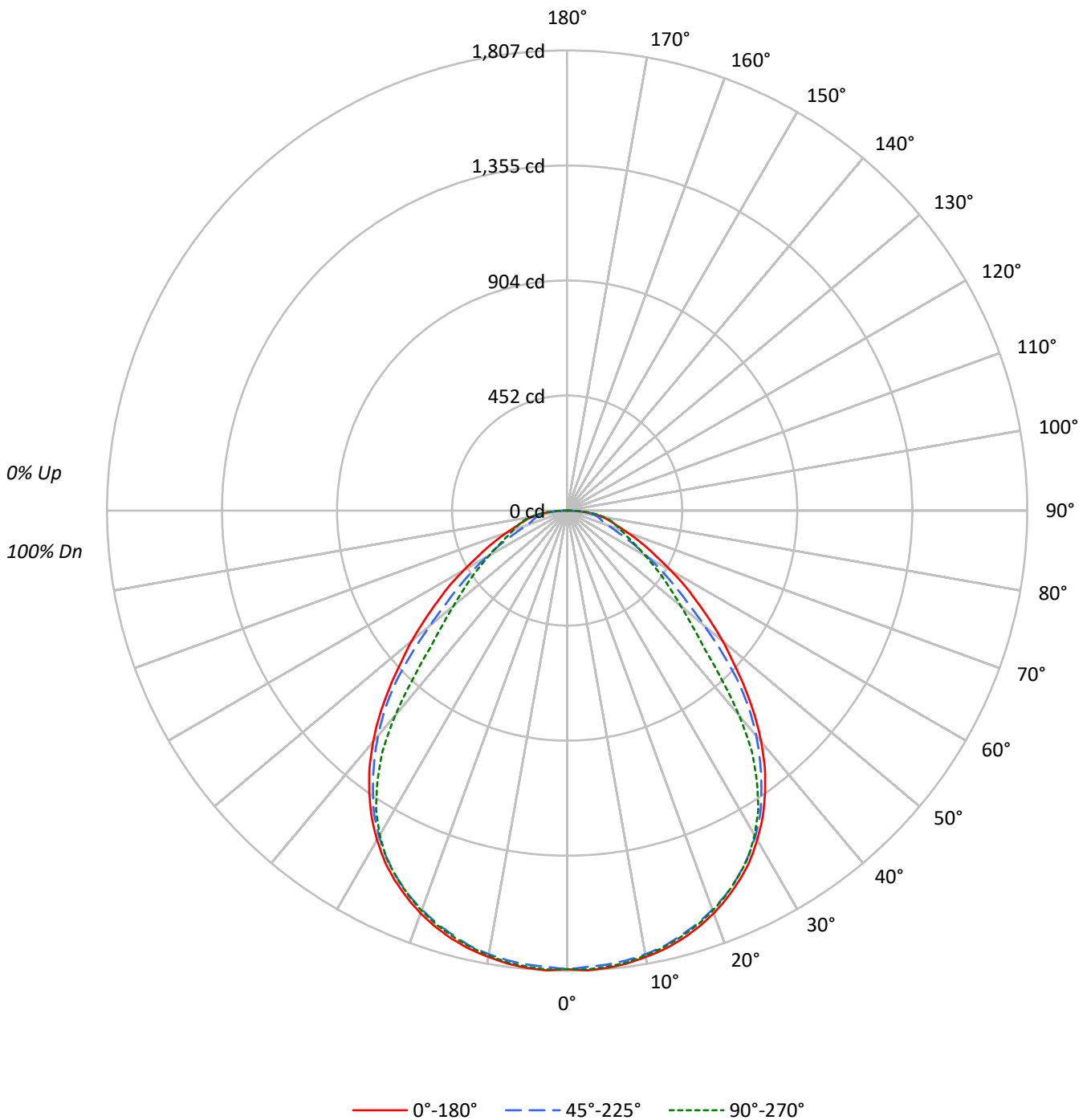
Input Watts (W): 31.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P476309

CATALOG NUMBER: 14GR-LD5-40-A-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P476309

CATALOG NUMBER: 14GR-LD5-40-A-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	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	74	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	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	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	31	30

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

	0°	45°	90°
0°	6068	6068	6068
5°	6098	6052	6082
10°	6090	6052	6068
15°	6079	6025	6043
20°	6035	5980	5996
25°	5955	5898	5901
30°	5810	5750	5725
35°	5572	5471	5346
40°	5216	5083	4625
45°	4710	4532	3615
50°	4177	3679	3058
55°	3646	3019	2697
60°	3161	2485	2381
65°	2773	1993	2198
70°	2473	1692	2213
75°	2412	1784	2472
80°	2674	2249	2833
85°	2784	2401	3317



TEST NUMBER: P476309

CATALOG NUMBER: 14GR-LD5-40-A-UNV-L850-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.9	4.3
10°-20°	489.5	12.5
20°-30°	732.2	18.6
30°-40°	826.6	21.0
40°-50°	701.2	17.8
50°-60°	474.4	12.1
60°-70°	283.2	7.2
70°-80°	177.4	4.5
80°-90°	74.6	1.9
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°	1392.6	35.4
0°-40°	2219.1	56.5
0°-60°	3394.8	86.4
0°-90°	3929.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1801	1801	1801	1801	1801	
5°	1803	1797	1789	1802	1798	171
15°	1742	1739	1727	1739	1732	491
25°	1602	1596	1586	1594	1587	737
35°	1354	1346	1330	1318	1300	844
45°	988	992	951	815	759	762
55°	621	592	514	460	459	559
65°	348	288	250	266	276	348
75°	185	165	137	181	190	199
85°	72	68	62	80	86	78
90°	0	0	0	0	0	



TEST NUMBER: P476309

CATALOG NUMBER: 14GR-LD5-40-A-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1800.9	1800.9	1800.9	1800.9	1800.9
2.5°	1807.3	1801.7	1793.5	1804.6	1803.6
5°	1802.7	1797.3	1789.1	1801.7	1798.1
7.5°	1794.4	1789.8	1781.8	1793.5	1789.8
10°	1779.9	1776.2	1768.9	1778.9	1773.5
12.5°	1764.3	1761.7	1752.5	1761.7	1756.1
15°	1742.5	1738.8	1727.0	1738.8	1732.3
17.5°	1715.1	1710.5	1700.5	1710.5	1704.9
20°	1683.1	1677.7	1667.6	1677.7	1672.2
22.5°	1644.8	1640.2	1631.2	1640.2	1632.9
25°	1601.8	1596.5	1586.3	1593.6	1587.3
27.5°	1552.6	1545.3	1536.1	1541.7	1538.0
30°	1493.2	1484.2	1477.7	1477.7	1471.4
32.5°	1428.4	1422.1	1411.2	1404.7	1396.4
35°	1354.5	1345.5	1330.0	1318.1	1299.7
37.5°	1275.2	1264.2	1245.1	1214.8	1190.3
40°	1185.7	1171.9	1155.6	1096.2	1051.5
42.5°	1089.9	1087.0	1058.8	957.5	895.4
45°	988.5	992.2	951.1	815.1	758.6
47.5°	886.2	899.0	824.3	690.9	661.8
50°	796.9	801.3	701.9	599.7	583.3
52.5°	704.7	697.3	598.8	527.5	515.6
55°	620.6	591.5	513.9	460.1	459.1
57.5°	546.7	492.8	439.0	398.9	403.5
60°	469.1	408.9	368.7	346.8	353.3
62.5°	400.7	343.2	307.5	301.2	312.1
65°	347.8	288.4	250.0	266.5	275.7
67.5°	297.6	247.4	203.5	242.8	246.4
70°	251.0	214.4	171.7	223.6	224.6
72.5°	212.7	189.9	148.7	202.7	205.4
75°	185.3	165.2	137.0	180.7	189.9
77.5°	162.5	141.4	126.8	156.2	171.7
80°	137.8	114.0	115.9	130.5	146.0
82.5°	106.0	88.5	92.2	107.7	118.6
85°	72.0	68.4	62.1	80.3	85.8
87.5°	38.3	36.6	32.0	45.6	42.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)