

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: P476300

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

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476300  
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-L840-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3926.0 lumens  
Efficiency: N/A  
Efficacy: 125.4 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

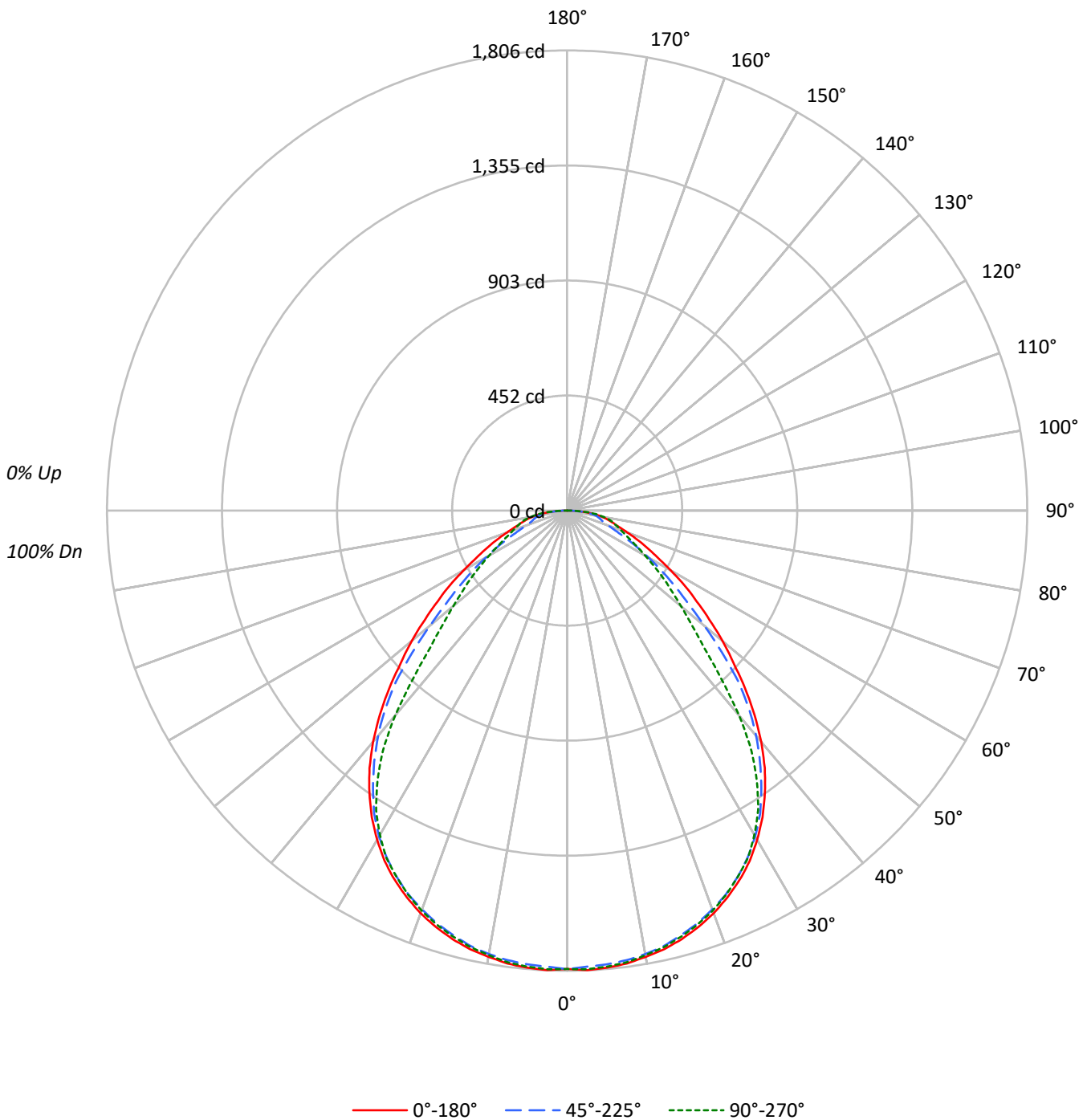
Input Watts (W): 31.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	6063	6063	6063
5°	6091	6045	6076
10°	6084	6047	6062
15°	6073	6019	6037
20°	6029	5974	5990
25°	5950	5892	5895
30°	5804	5744	5719
35°	5566	5466	5341
40°	5210	5078	4621
45°	4706	4528	3611
50°	4173	3676	3055
55°	3642	3016	2694
60°	3158	2482	2379
65°	2770	1992	2197
70°	2471	1690	2210
75°	2410	1782	2470
80°	2670	2247	2831
85°	2784	2397	3317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.7	4.3
10°-20°	489.0	12.5
20°-30°	731.5	18.6
30°-40°	825.8	21.0
40°-50°	700.5	17.8
50°-60°	474.0	12.1
60°-70°	282.9	7.2
70°-80°	177.2	4.5
80°-90°	74.5	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°	1391.2	35.4
0°-40°	2216.9	56.5
0°-60°	3391.4	86.4
0°-90°	3926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3926.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1799	1799	1799	1799	1799	
5°	1801	1796	1787	1800	1796	171
15°	1741	1737	1725	1737	1731	491
25°	1600	1595	1585	1592	1586	736
35°	1353	1344	1329	1317	1298	843
45°	988	991	950	814	758	761
55°	620	591	513	460	459	559
65°	347	288	250	266	276	347
75°	185	165	137	180	190	199
85°	72	68	62	80	86	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1799.2	1799.2	1799.2	1799.2	1799.2
2.5°	1805.5	1799.9	1791.7	1802.8	1801.8
5°	1800.9	1795.5	1787.3	1799.9	1796.3
7.5°	1792.7	1788.1	1780.0	1791.7	1788.1
10°	1778.1	1774.5	1767.2	1777.2	1771.8
12.5°	1762.6	1759.9	1750.7	1759.9	1754.4
15°	1740.8	1737.1	1725.3	1737.1	1730.6
17.5°	1713.4	1708.8	1698.9	1708.8	1703.3
20°	1681.4	1676.1	1665.9	1676.1	1670.5
22.5°	1643.2	1638.6	1629.6	1638.6	1631.3
25°	1600.3	1594.9	1584.8	1592.0	1585.7
27.5°	1551.1	1543.8	1534.6	1540.2	1536.5
30°	1491.7	1482.7	1476.2	1476.2	1469.9
32.5°	1427.0	1420.7	1409.8	1403.3	1395.1
35°	1353.2	1344.2	1328.7	1316.8	1298.4
37.5°	1273.9	1263.0	1243.9	1213.6	1189.1
40°	1184.5	1170.7	1154.5	1095.1	1050.5
42.5°	1088.8	1085.9	1057.8	956.5	894.5
45°	987.5	991.2	950.2	814.3	757.8
47.5°	885.3	898.1	823.5	690.3	661.2
50°	796.1	800.5	701.2	599.1	582.7
52.5°	704.0	696.6	598.2	527.0	515.1
55°	620.0	590.9	513.4	459.6	458.6
57.5°	546.1	492.3	438.5	398.5	403.1
60°	468.6	408.5	368.3	346.5	353.0
62.5°	400.3	342.8	307.2	300.9	311.8
65°	347.4	288.1	249.8	266.3	275.5
67.5°	297.3	247.1	203.3	242.5	246.2
70°	250.8	214.2	171.5	223.4	224.3
72.5°	212.5	189.7	148.5	202.5	205.2
75°	185.1	165.0	136.9	180.5	189.7
77.5°	162.3	141.3	126.7	156.0	171.5
80°	137.6	113.9	115.8	130.4	145.9
82.5°	105.9	88.4	92.1	107.6	118.5
85°	72.0	68.3	62.0	80.2	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)