

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: P476337

Luminaire Tested: **14GR-LD5-43-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476337  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-43-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: 4431.1 lumens  
Efficiency: N/A  
Efficacy: 134.3 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

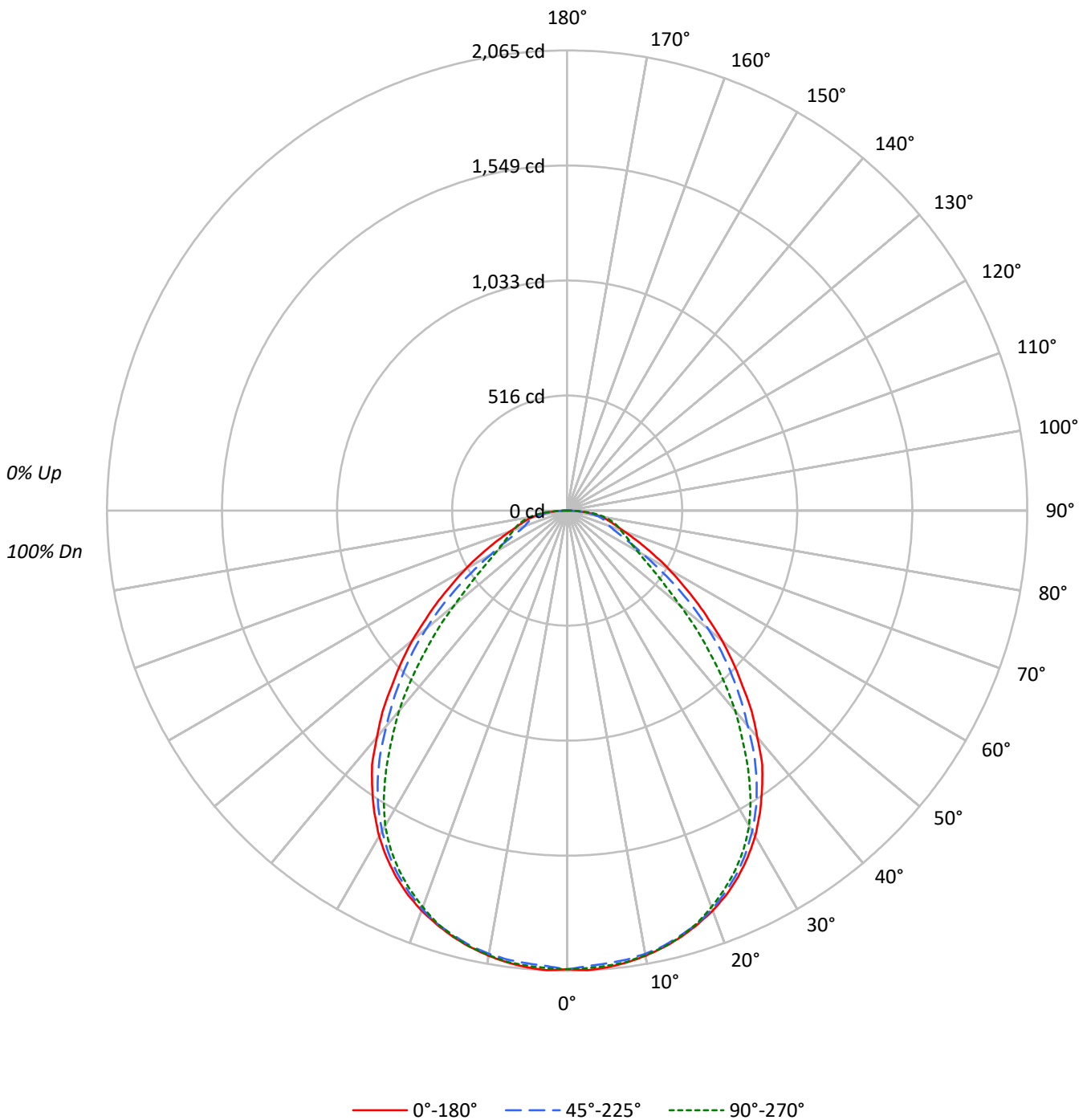
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5539	5539	5539
5°	5558	5510	5538
10°	5543	5518	5535
15°	5517	5497	5508
20°	5470	5449	5423
25°	5387	5344	5293
30°	5244	5161	5075
35°	5010	4871	4651
40°	4663	4428	4124
45°	4236	3981	3456
50°	3794	3457	2755
55°	3295	2822	2237
60°	2843	2133	1951
65°	2432	1705	1915
70°	2147	1588	2009
75°	2141	1821	2292
80°	2314	2123	2633
85°	2479	2257	3020



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.9	4.4
10°-20°	557.7	12.6
20°-30°	827.5	18.7
30°-40°	918.9	20.7
40°-50°	792.5	17.9
50°-60°	537.4	12.1
60°-70°	310.8	7.0
70°-80°	202.9	4.6
80°-90°	88.5	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°	1580.1	35.7
0°-40°	2499.0	56.4
0°-60°	3829.0	86.4
0°-90°	4431.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4431.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2057	2049	2040	2054	2050	195
15°	1980	1976	1973	1986	1977	558
25°	1814	1812	1800	1795	1782	834
35°	1525	1511	1483	1442	1416	951
45°	1113	1096	1046	960	908	860
55°	702	688	601	512	477	631
65°	382	339	268	274	301	384
75°	206	186	175	196	220	219
85°	80	78	73	102	98	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2058.4	2058.4	2058.4	2058.4	2058.4
2.5°	2064.6	2057.4	2046.1	2058.4	2055.3
5°	2057.4	2049.2	2039.9	2054.3	2050.2
7.5°	2046.1	2037.8	2032.7	2045.1	2043.0
10°	2028.6	2022.4	2019.3	2034.8	2025.5
12.5°	2007.0	2001.8	2000.8	2013.1	2005.9
15°	1980.2	1976.1	1973.0	1986.4	1977.1
17.5°	1947.2	1945.2	1943.1	1949.3	1941.0
20°	1910.2	1908.1	1902.9	1904.0	1893.7
22.5°	1866.9	1864.8	1854.5	1852.5	1841.2
25°	1814.4	1812.3	1800.0	1794.8	1782.5
27.5°	1754.7	1755.7	1735.1	1725.8	1714.5
30°	1687.7	1683.6	1661.0	1645.5	1633.2
32.5°	1609.5	1604.3	1577.6	1552.8	1531.2
35°	1525.0	1510.6	1482.8	1441.6	1415.9
37.5°	1438.5	1419.0	1377.8	1325.3	1291.3
40°	1327.3	1306.7	1260.4	1200.7	1173.9
42.5°	1227.4	1205.8	1154.3	1084.3	1042.1
45°	1113.1	1095.6	1046.2	959.7	908.2
47.5°	1009.1	990.6	940.1	838.2	787.7
50°	906.2	885.6	825.8	715.7	658.0
52.5°	799.1	787.7	714.6	604.5	558.1
55°	702.3	687.9	601.4	511.8	476.8
57.5°	609.6	585.9	492.2	425.3	411.9
60°	528.3	495.3	396.4	359.4	362.5
62.5°	451.0	411.9	325.4	307.9	325.4
65°	382.0	338.8	267.7	273.9	300.7
67.5°	321.3	280.1	227.6	252.3	274.9
70°	272.9	238.9	201.8	229.6	255.4
72.5°	233.7	211.1	189.5	211.1	238.9
75°	205.9	186.4	175.1	195.6	220.4
77.5°	180.2	164.8	159.6	176.1	196.7
80°	149.3	142.1	137.0	158.6	169.9
82.5°	115.3	112.2	108.1	134.9	140.0
85°	80.3	78.3	73.1	101.9	97.8
87.5°	42.2	40.2	37.1	53.5	48.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)