

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: P476346

Luminaire Tested: **14GR-LD5-43-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476346  
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-L850-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4435.4 lumens  
Efficiency: N/A  
Efficacy: 134.4 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

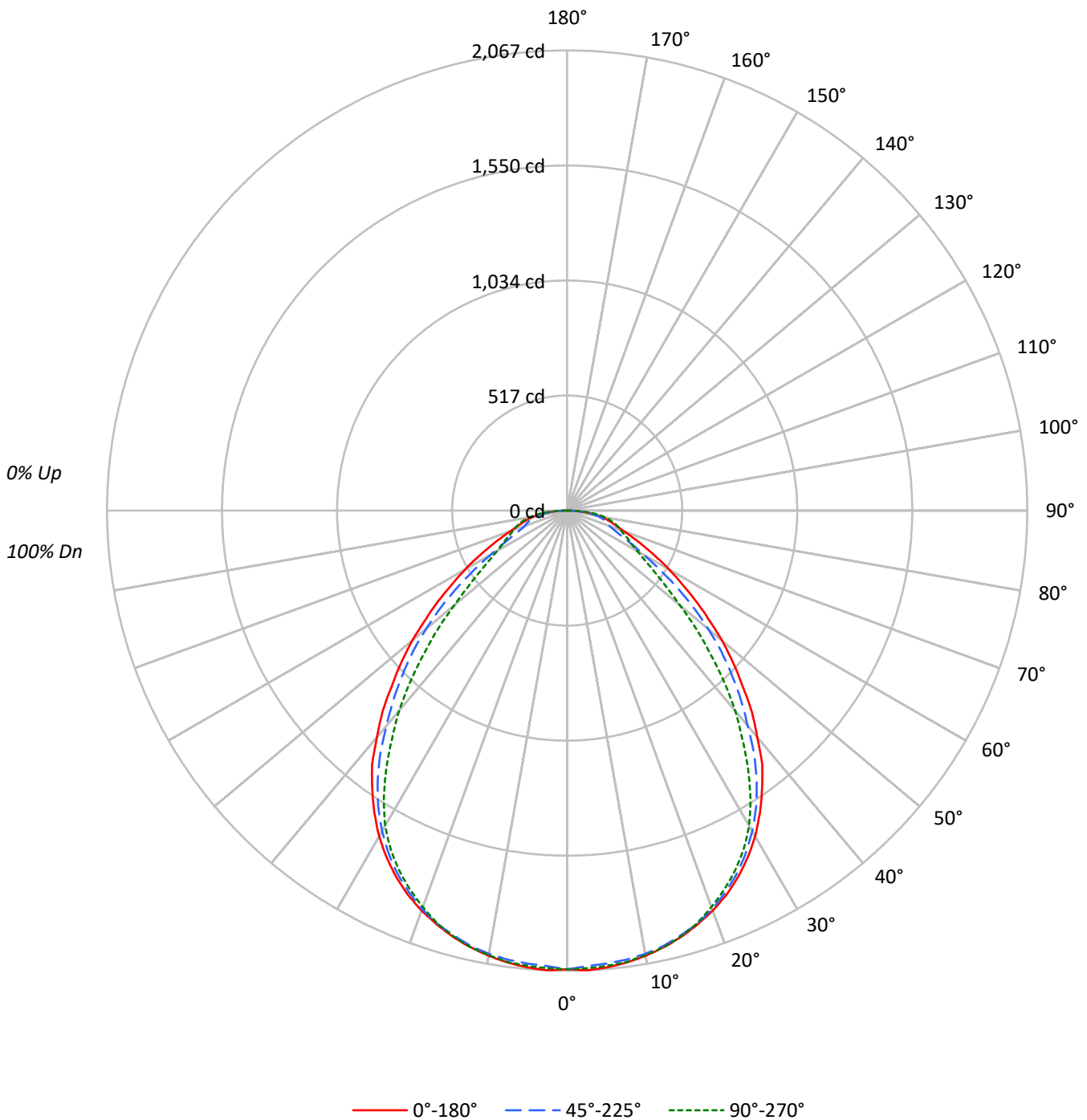
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	5545	5545	5545
5°	5563	5516	5544
10°	5549	5523	5540
15°	5522	5502	5513
20°	5475	5455	5428
25°	5393	5350	5298
30°	5249	5166	5080
35°	5015	4876	4656
40°	4667	4432	4128
45°	4240	3985	3460
50°	3798	3461	2757
55°	3298	2824	2239
60°	2846	2136	1953
65°	2435	1706	1917
70°	2149	1589	2011
75°	2143	1822	2294
80°	2317	2125	2636
85°	2482	2260	3023



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.1	4.4
10°-20°	558.3	12.6
20°-30°	828.3	18.7
30°-40°	919.8	20.7
40°-50°	793.3	17.9
50°-60°	538.0	12.1
60°-70°	311.1	7.0
70°-80°	203.1	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°	1581.7	35.7
0°-40°	2501.5	56.4
0°-60°	3832.7	86.4
0°-90°	4435.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4435.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2060	2060	2060	2060	2060	
5°	2059	2051	2042	2056	2052	196
15°	1982	1978	1975	1988	1979	559
25°	1816	1814	1802	1797	1784	835
35°	1526	1512	1484	1443	1417	952
45°	1114	1097	1047	961	909	861
55°	703	688	602	512	477	632
65°	382	339	268	274	301	385
75°	206	187	175	196	221	220
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°	2060.5	2060.5	2060.5	2060.5	2060.5
2.5°	2066.6	2059.4	2048.1	2060.5	2057.4
5°	2059.4	2051.2	2041.9	2056.3	2052.2
7.5°	2048.1	2039.8	2034.7	2047.1	2045.0
10°	2030.6	2024.4	2021.3	2036.7	2027.5
12.5°	2008.9	2003.8	2002.7	2015.1	2007.9
15°	1982.1	1978.0	1974.9	1988.3	1979.0
17.5°	1949.1	1947.1	1945.0	1951.2	1943.0
20°	1912.0	1910.0	1904.8	1905.8	1895.5
22.5°	1868.7	1866.7	1856.4	1854.3	1843.0
25°	1816.2	1814.1	1801.7	1796.6	1784.2
27.5°	1756.4	1757.4	1736.8	1727.5	1716.2
30°	1689.4	1685.3	1662.6	1647.1	1634.8
32.5°	1611.1	1605.9	1579.1	1554.4	1532.7
35°	1526.5	1512.1	1484.3	1443.0	1417.3
37.5°	1439.9	1420.4	1379.1	1326.6	1292.6
40°	1328.6	1308.0	1261.6	1201.8	1175.0
42.5°	1228.6	1207.0	1155.5	1085.4	1043.1
45°	1114.2	1096.7	1047.2	960.7	909.1
47.5°	1010.1	991.6	941.1	839.0	788.5
50°	907.1	886.4	826.7	716.4	658.6
52.5°	799.9	788.5	715.3	605.0	558.7
55°	703.0	688.5	602.0	512.3	477.2
57.5°	610.2	586.5	492.7	425.7	412.3
60°	528.8	495.8	396.8	359.7	362.8
62.5°	451.5	412.3	325.7	308.2	325.7
65°	382.4	339.1	268.0	274.2	301.0
67.5°	321.6	280.4	227.8	252.5	275.2
70°	273.1	239.1	202.0	229.9	255.6
72.5°	234.0	211.3	189.7	211.3	239.1
75°	206.1	186.6	175.2	195.8	220.6
77.5°	180.4	164.9	159.8	176.3	196.9
80°	149.5	142.2	137.1	158.7	170.1
82.5°	115.4	112.4	108.2	135.0	140.2
85°	80.4	78.3	73.2	102.0	97.9
87.5°	42.3	40.2	37.1	53.6	48.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)