

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: P476212

Luminaire Tested: **14GR-LD5-50-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476212  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-50-F125-UNV-L830-CD1-U  
Description: GR 1'X4' LED TROFFER w/ F125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4887.9 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

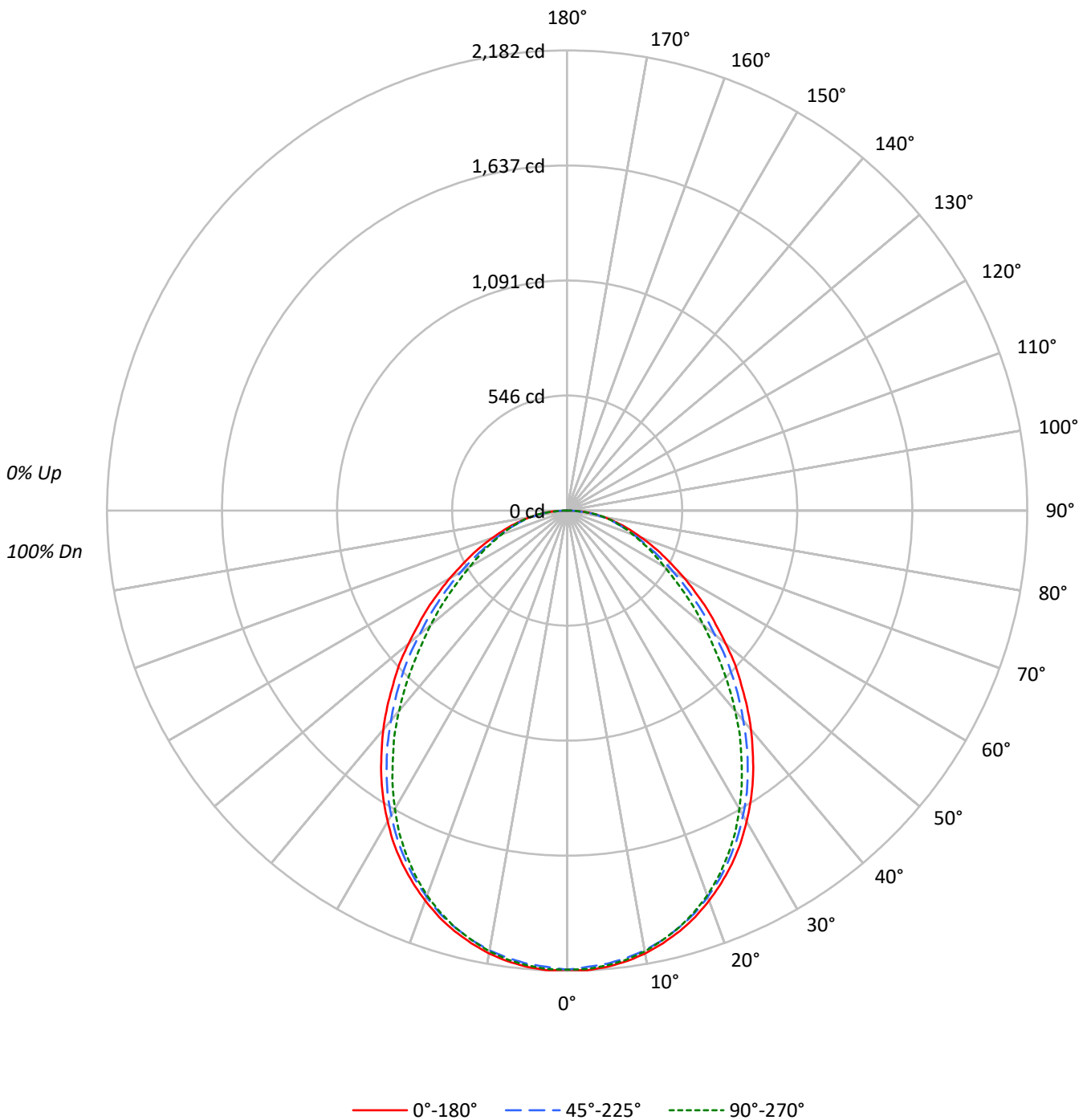
Input Watts (W): 41  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P476212

CATALOG NUMBER: 14GR-LD5-50-F125-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P476212

CATALOG NUMBER: 14GR-LD5-50-F125-UNV-L830-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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

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

	0°	45°	90°
0°	5859	5859	5859
5°	5866	5827	5848
10°	5827	5787	5799
15°	5751	5704	5704
20°	5636	5582	5562
25°	5488	5409	5352
30°	5288	5184	5076
35°	5051	4904	4735
40°	4765	4565	4352
45°	4443	4213	3928
50°	4106	3820	3535
55°	3788	3462	3179
60°	3455	3130	2871
65°	3175	2841	2713
70°	2947	2657	2604
75°	2813	2581	2627
80°	2755	2599	2738
85°	2831	2553	2726



TEST NUMBER: P476212

CATALOG NUMBER: 14GR-LD5-50-F125-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.4	4.2
10°-20°	578.2	11.8
20°-30°	838.8	17.2
30°-40°	931.3	19.1
40°-50°	852.0	17.4
50°-60°	663.7	13.6
60°-70°	453.5	9.3
70°-80°	270.9	5.5
80°-90°	94.2	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°	1622.4	33.2
0°-40°	2553.7	52.2
0°-60°	4069.4	83.3
0°-90°	4887.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4887.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2177	2177	2177	2177	2177	
5°	2172	2167	2157	2168	2165	206
15°	2064	2059	2048	2055	2048	581
25°	1848	1841	1822	1816	1803	850
35°	1538	1524	1493	1462	1441	959
45°	1167	1152	1107	1056	1032	902
55°	807	783	738	694	678	721
65°	499	480	446	426	426	497
75°	271	259	248	253	253	287
85°	92	87	83	91	88	99
90°	0	0	0	0	0	



TEST NUMBER: P476212

CATALOG NUMBER: 14GR-LD5-50-F125-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2177.2	2177.2	2177.2	2177.2	2177.2
2.5°	2181.6	2176.0	2166.0	2177.2	2176.0
5°	2171.6	2167.1	2157.0	2168.2	2164.9
7.5°	2155.9	2151.4	2140.3	2152.6	2148.1
10°	2132.4	2126.8	2117.9	2126.8	2122.4
12.5°	2101.1	2095.5	2086.6	2094.4	2086.6
15°	2064.2	2058.6	2047.5	2055.3	2047.5
17.5°	2020.6	2012.8	2003.8	2005.0	1998.3
20°	1968.1	1960.2	1949.1	1949.1	1942.3
22.5°	1911.0	1903.2	1889.8	1885.3	1876.4
25°	1848.4	1840.6	1821.6	1816.0	1802.6
27.5°	1780.2	1767.9	1748.9	1736.6	1723.2
30°	1701.9	1691.9	1668.4	1650.5	1633.7
32.5°	1622.5	1612.5	1585.6	1558.8	1540.9
35°	1537.5	1524.1	1492.8	1461.5	1441.4
37.5°	1445.9	1434.7	1398.9	1360.9	1345.2
40°	1356.4	1341.9	1299.4	1260.2	1239.0
42.5°	1262.5	1246.8	1204.3	1159.6	1136.1
45°	1167.4	1151.8	1107.0	1055.6	1032.1
47.5°	1079.1	1059.0	1012.0	960.5	932.6
50°	980.7	963.9	912.5	863.3	844.3
52.5°	889.0	873.3	825.2	777.2	759.3
55°	807.4	782.8	738.0	694.4	677.6
57.5°	720.1	700.0	657.5	616.1	599.4
60°	641.9	626.2	581.5	545.7	533.4
62.5°	564.7	552.4	511.0	484.2	476.4
65°	498.7	479.7	446.2	426.0	426.0
67.5°	436.1	417.1	388.0	380.2	373.5
70°	374.6	360.1	337.7	331.0	331.0
72.5°	319.8	307.5	291.9	289.6	294.1
75°	270.6	259.4	248.2	252.7	252.7
77.5°	221.4	213.6	209.1	211.3	215.8
80°	177.8	172.2	167.7	173.3	176.7
82.5°	136.4	130.8	127.5	135.3	134.2
85°	91.7	87.2	82.7	90.6	88.3
87.5°	45.8	43.6	35.8	40.3	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)