

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: P476032

Luminaire Tested: **22GR-LD5-50-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476032
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-A-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4735.4 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

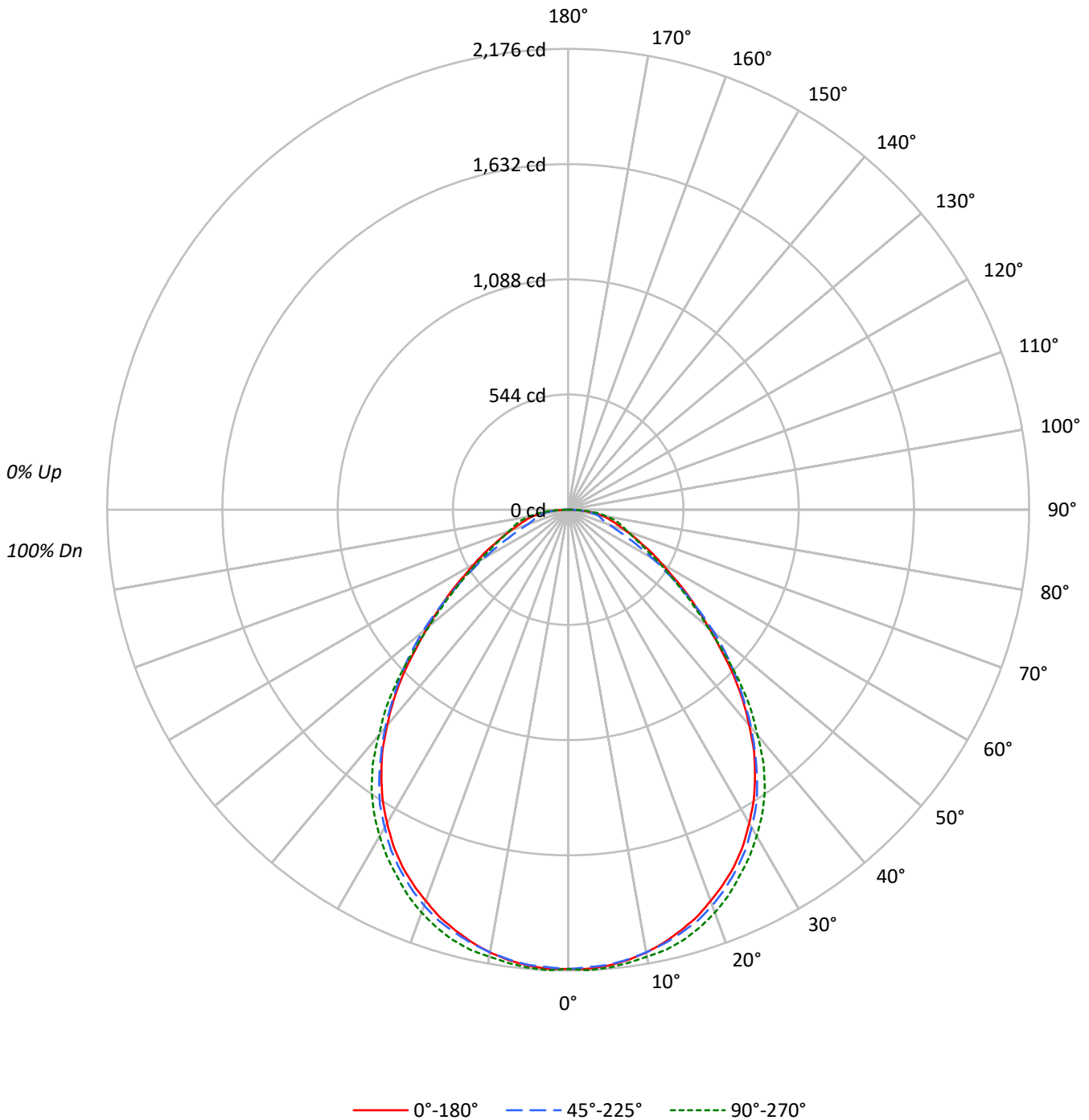
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5836	5836	5836
5°	5837	5829	5864
10°	5802	5800	5856
15°	5729	5760	5860
20°	5630	5696	5797
25°	5510	5572	5673
30°	5310	5383	5530
35°	5050	5108	5315
40°	4669	4719	4885
45°	4193	4269	4337
50°	3625	3755	3589
55°	3164	3081	3040
60°	2740	2467	2633
65°	2449	1936	2365
70°	2271	1603	2334
75°	2268	1695	2589
80°	2512	2132	2920
85°	2621	2313	3304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	4.3
10°-20°	584.5	12.3
20°-30°	864.5	18.3
30°-40°	975.5	20.6
40°-50°	859.9	18.2
50°-60°	589.9	12.5
60°-70°	348.1	7.4
70°-80°	217.2	4.6
80°-90°	90.6	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°	1654.2	34.9
0°-40°	2629.7	55.5
0°-60°	4079.6	86.1
0°-90°	4735.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4735.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2169	2169	2169	2169	2169	
5°	2161	2157	2158	2165	2171	205
15°	2056	2058	2067	2093	2104	580
25°	1856	1862	1877	1901	1911	852
35°	1537	1550	1555	1592	1618	958
45°	1102	1108	1122	1128	1140	846
55°	674	658	657	635	648	605
65°	385	338	304	352	372	387
75°	218	196	163	228	249	234
85°	85	79	75	98	107	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2168.6	2168.6	2168.6	2168.6	2168.6
2.5°	2169.7	2164.2	2162.2	2170.9	2176.5
5°	2161.0	2156.6	2157.8	2165.4	2170.9
7.5°	2145.5	2142.3	2142.3	2153.1	2158.7
10°	2123.4	2122.5	2122.5	2135.6	2143.2
12.5°	2092.8	2093.6	2098.0	2115.8	2128.9
15°	2056.3	2058.4	2067.4	2092.8	2103.6
17.5°	2016.7	2016.7	2034.2	2054.0	2067.4
20°	1965.9	1969.1	1989.0	2011.1	2024.2
22.5°	1914.0	1919.6	1936.2	1961.5	1973.5
25°	1855.7	1862.4	1876.7	1900.9	1910.8
27.5°	1787.5	1796.2	1811.7	1829.2	1850.2
30°	1709.0	1722.4	1732.4	1756.6	1779.6
32.5°	1629.7	1642.0	1653.0	1678.4	1704.7
35°	1537.3	1550.4	1554.8	1592.4	1617.8
37.5°	1442.5	1448.1	1450.1	1487.7	1515.1
40°	1329.1	1339.9	1343.4	1373.1	1390.6
42.5°	1219.7	1224.4	1230.8	1253.0	1274.0
45°	1101.9	1107.5	1121.8	1128.5	1139.5
47.5°	978.6	995.2	1011.5	990.5	991.7
50°	866.0	879.4	896.9	857.3	857.3
52.5°	765.7	772.4	773.6	740.6	747.1
55°	674.5	657.8	656.7	634.8	647.9
57.5°	582.9	561.0	553.2	546.4	561.9
60°	509.1	469.5	458.4	468.3	489.3
62.5°	448.5	397.7	376.7	402.1	421.1
65°	384.6	338.2	304.1	351.7	371.5
67.5°	335.0	291.0	247.0	314.0	328.3
70°	288.7	254.6	203.8	285.5	296.6
72.5°	251.4	224.8	176.4	257.8	271.2
75°	218.1	196.2	163.0	228.0	249.0
77.5°	191.9	167.4	152.2	197.1	222.5
80°	162.1	137.6	137.6	165.3	188.4
82.5°	127.7	107.9	111.4	134.4	151.0
85°	84.9	79.3	74.9	98.0	107.0
87.5°	42.9	44.0	39.7	50.7	51.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)