

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: P475900

Luminaire Tested: **22GR-LD5-50-F1-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475900
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-F1-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F1 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5057.4 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.17 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

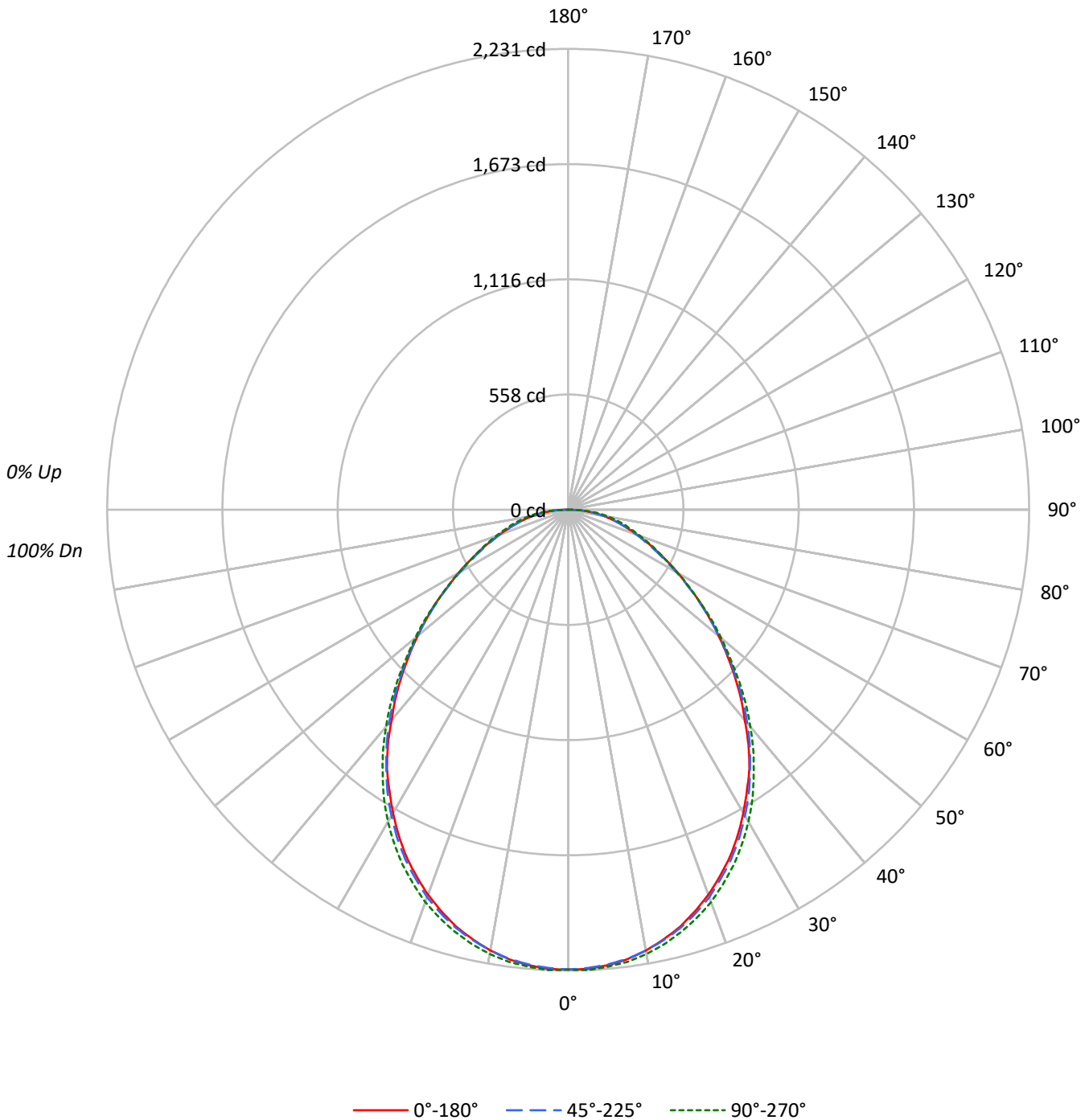
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5992	5992	5992
5°	5980	5969	5997
10°	5921	5921	5968
15°	5823	5841	5894
20°	5680	5717	5790
25°	5503	5541	5630
30°	5269	5315	5421
35°	5024	5038	5143
40°	4667	4735	4817
45°	4334	4375	4440
50°	3982	3982	4045
55°	3652	3612	3632
60°	3306	3249	3294
65°	3015	2947	3042
70°	2785	2769	2903
75°	2684	2661	2927
80°	2710	2710	3107
85°	2831	2964	3557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.0	4.2
10°-20°	591.1	11.7
20°-30°	859.4	17.0
30°-40°	962.0	19.0
40°-50°	887.9	17.6
50°-60°	692.8	13.7
60°-70°	469.0	9.3
70°-80°	280.1	5.5
80°-90°	105.2	2.1
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°	1660.4	32.8
0°-40°	2622.4	51.9
0°-60°	4203.1	83.1
0°-90°	5057.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5057.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2227	2227	2227	2227	2227	
5°	2214	2210	2210	2218	2220	210
15°	2090	2090	2096	2109	2116	588
25°	1853	1853	1866	1885	1896	851
35°	1529	1527	1534	1557	1566	951
45°	1139	1145	1150	1158	1167	879
55°	778	772	770	774	774	695
65°	474	469	463	471	478	472
75°	258	256	256	271	282	274
85°	92	90	96	111	115	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2226.6	2226.6	2226.6	2226.6	2226.6
2.5°	2224.5	2220.2	2220.2	2226.6	2230.9
5°	2213.8	2209.6	2209.6	2218.1	2220.2
7.5°	2194.7	2192.5	2192.5	2201.0	2207.4
10°	2166.9	2164.8	2166.9	2175.5	2184.0
12.5°	2130.7	2130.7	2134.9	2145.6	2154.1
15°	2090.1	2090.1	2096.5	2109.3	2115.7
17.5°	2039.0	2041.1	2049.6	2064.5	2070.9
20°	1983.5	1987.8	1996.3	2009.1	2021.9
22.5°	1919.5	1923.8	1932.3	1951.5	1960.0
25°	1853.4	1853.4	1866.2	1885.4	1896.1
27.5°	1776.6	1778.8	1791.6	1812.9	1823.5
30°	1695.6	1702.0	1710.5	1729.7	1744.6
32.5°	1610.3	1616.7	1627.3	1648.7	1659.3
35°	1529.2	1527.1	1533.5	1556.9	1565.5
37.5°	1433.2	1435.4	1443.9	1461.0	1471.6
40°	1328.7	1339.4	1347.9	1360.7	1371.4
42.5°	1237.0	1243.4	1249.8	1262.6	1271.1
45°	1138.9	1145.3	1149.6	1158.1	1166.6
47.5°	1042.9	1045.1	1051.5	1055.7	1062.1
50°	951.2	953.4	951.2	957.6	966.2
52.5°	861.7	859.5	859.5	861.7	874.4
55°	778.5	772.1	769.9	774.2	774.2
57.5°	686.8	684.6	684.6	682.5	693.2
60°	614.2	607.8	603.6	607.8	612.1
62.5°	539.6	533.2	528.9	537.5	537.5
65°	473.5	469.2	462.8	471.3	477.7
67.5°	409.5	405.2	403.1	413.8	422.3
70°	354.0	351.9	351.9	362.6	369.0
72.5°	302.9	300.7	300.7	315.7	322.1
75°	258.1	255.9	255.9	270.9	281.5
77.5°	213.3	211.1	217.5	230.3	241.0
80°	174.9	172.8	174.9	192.0	200.5
82.5°	132.2	132.2	136.5	153.6	162.1
85°	91.7	89.6	96.0	110.9	115.2
87.5°	46.9	49.1	51.2	59.7	59.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)