

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: P476092

Luminaire Tested: **22GR-LD5-50-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476092
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-A125-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5079.2 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

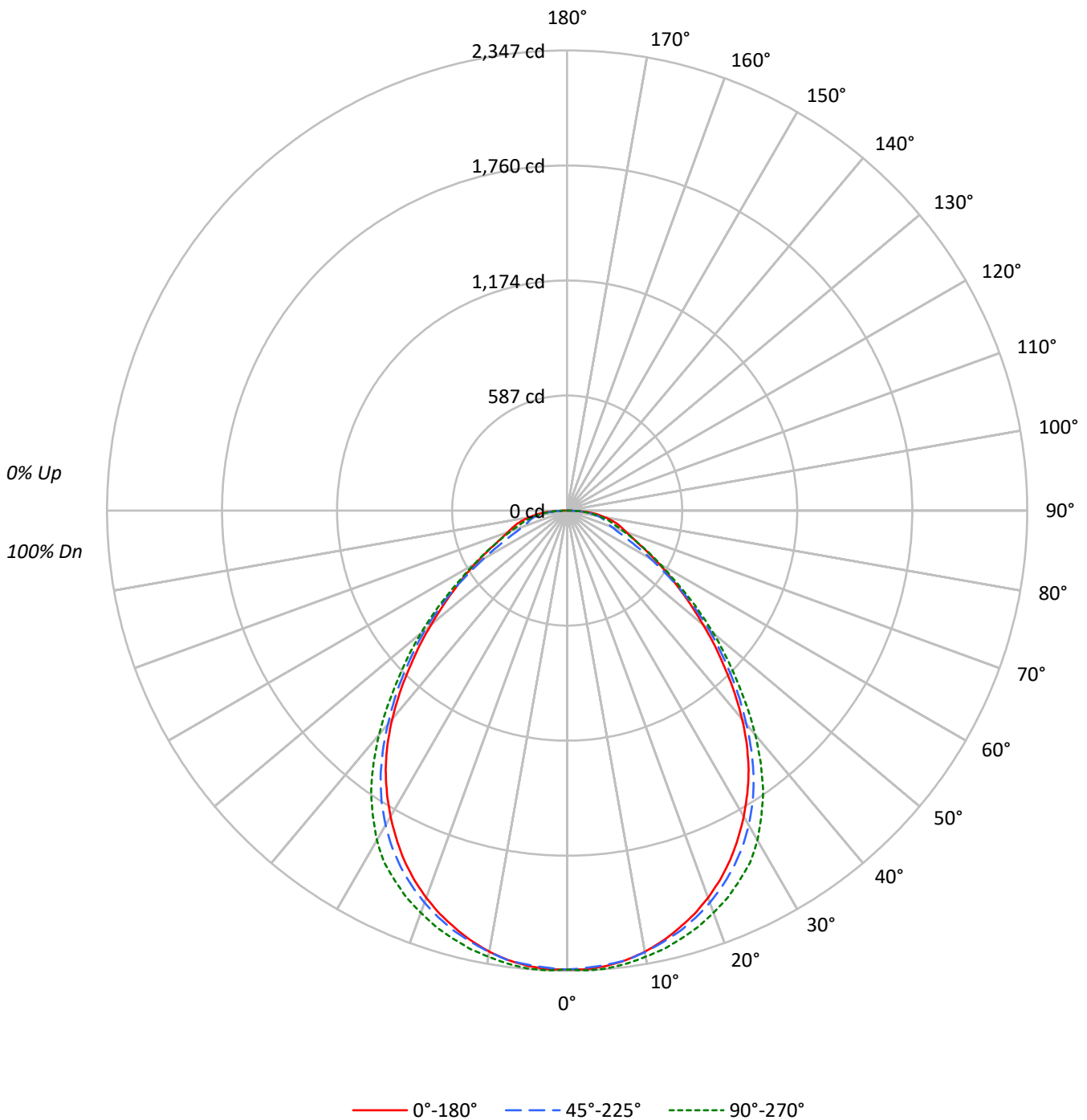
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	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	52	46	41	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	34	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	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6300	6300	6300
5°	6296	6280	6331
10°	6243	6249	6314
15°	6143	6186	6291
20°	6016	6094	6251
25°	5841	5960	6179
30°	5597	5755	6032
35°	5302	5450	5726
40°	4876	4996	5246
45°	4331	4488	4650
50°	3783	3956	4075
55°	3288	3334	3456
60°	2894	2651	2951
65°	2572	2119	2586
70°	2525	1881	2386
75°	2759	2069	2437
80°	3030	2456	2608
85°	3619	2853	2921



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	4.4
10°-20°	627.5	12.4
20°-30°	926.4	18.2
30°-40°	1036.6	20.4
40°-50°	910.3	17.9
50°-60°	644.1	12.7
60°-70°	374.9	7.4
70°-80°	233.6	4.6
80°-90°	104.5	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°	1775.1	34.9
0°-40°	2811.7	55.4
0°-60°	4366.1	86.0
0°-90°	5079.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5079.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2341	2341	2341	2341	2341	
5°	2331	2325	2325	2337	2344	221
15°	2205	2210	2221	2244	2258	621
25°	1967	1975	2007	2055	2081	903
35°	1614	1621	1659	1709	1743	1004
45°	1138	1151	1179	1208	1222	880
55°	701	715	711	724	737	634
65°	404	372	333	362	406	410
75°	265	228	199	204	234	277
85°	117	122	92	90	95	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2341.3	2341.3	2341.3	2341.3	2341.3
2.5°	2341.3	2336.6	2334.1	2342.5	2347.2
5°	2330.6	2324.7	2324.7	2336.6	2343.8
7.5°	2311.8	2305.9	2312.8	2323.4	2330.6
10°	2284.6	2282.1	2286.8	2301.2	2310.6
12.5°	2248.8	2250.1	2254.8	2277.4	2289.3
15°	2205.0	2209.7	2220.6	2244.1	2258.2
17.5°	2157.7	2161.4	2177.7	2205.0	2225.3
20°	2100.9	2107.8	2128.2	2162.4	2182.7
22.5°	2038.0	2046.4	2071.2	2112.8	2137.6
25°	1967.1	1975.3	2007.3	2054.6	2080.9
27.5°	1886.6	1899.5	1935.2	1987.2	2022.6
30°	1801.4	1812.0	1852.2	1911.4	1941.1
32.5°	1710.2	1723.1	1761.0	1817.7	1844.0
35°	1614.0	1621.2	1659.1	1709.0	1743.1
37.5°	1505.3	1508.7	1544.1	1590.5	1621.2
40°	1388.1	1390.3	1422.2	1466.1	1493.4
42.5°	1265.9	1267.1	1301.6	1334.5	1358.3
45°	1138.0	1151.2	1179.4	1207.9	1222.0
47.5°	1023.1	1032.8	1058.8	1083.5	1096.7
50°	903.7	927.2	945.0	958.2	973.5
52.5°	800.6	820.6	825.3	840.7	853.9
55°	700.9	715.4	710.7	723.5	736.7
57.5°	617.0	609.8	594.4	617.0	633.6
60°	537.7	518.6	492.6	523.6	548.3
62.5°	466.6	435.9	403.9	434.6	476.0
65°	403.9	371.9	332.8	362.5	406.1
67.5°	356.6	323.4	277.0	306.8	350.6
70°	320.9	286.7	239.1	264.1	303.3
72.5°	292.7	255.7	214.3	230.9	264.1
75°	265.4	228.4	199.0	203.7	234.4
77.5°	233.4	206.2	182.4	179.9	203.7
80°	195.5	187.1	158.5	155.1	168.3
82.5°	161.1	157.6	130.3	126.6	131.6
85°	117.2	121.9	92.4	89.9	94.6
87.5°	61.7	67.4	48.6	51.1	52.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)