

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: P475948

Luminaire Tested: **22GR-LD5-50-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475948
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-F125-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5058.9 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

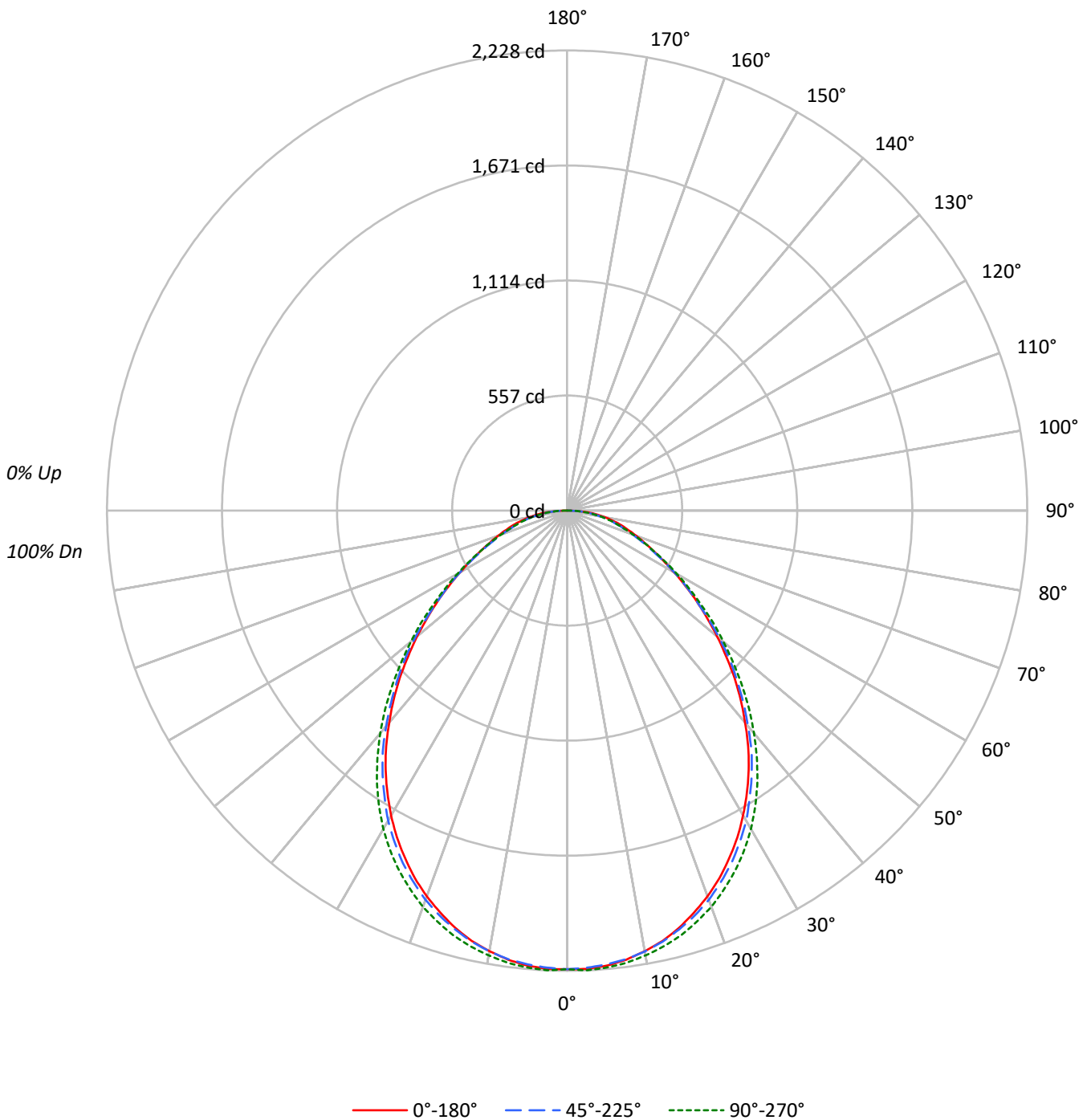
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5976	5976	5976
5°	5974	5958	5999
10°	5918	5922	5976
15°	5828	5847	5933
20°	5691	5742	5846
25°	5514	5591	5712
30°	5296	5387	5529
35°	5036	5117	5276
40°	4710	4787	4944
45°	4360	4427	4556
50°	3970	4034	4138
55°	3586	3596	3701
60°	3216	3228	3305
65°	2930	2869	2937
70°	2788	2632	2678
75°	2806	2538	2550
80°	2912	2565	2546
85°	3193	2714	2569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	4.1
10°-20°	592.7	11.7
20°-30°	867.5	17.1
30°-40°	975.4	19.3
40°-50°	899.5	17.8
50°-60°	693.3	13.7
60°-70°	457.5	9.0
70°-80°	266.2	5.3
80°-90°	97.0	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°	1670.1	33.0
0°-40°	2645.5	52.3
0°-60°	4238.3	83.8
0°-90°	5058.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5058.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2221	2221	2221	2221	2221	
5°	2212	2207	2206	2216	2221	210
15°	2092	2092	2099	2118	2130	589
25°	1857	1866	1883	1909	1924	854
35°	1533	1540	1558	1589	1606	956
45°	1146	1147	1163	1187	1197	882
55°	764	763	766	780	789	686
65°	460	458	451	454	461	462
75°	270	258	244	239	245	284
85°	103	102	88	81	83	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2220.8	2220.8	2220.8	2220.8	2220.8
2.5°	2220.8	2216.1	2214.9	2223.3	2227.9
5°	2211.5	2206.8	2205.6	2216.1	2220.8
7.5°	2192.9	2189.1	2190.4	2202.2	2208.1
10°	2165.8	2164.6	2167.1	2179.8	2187.0
12.5°	2134.2	2132.9	2137.6	2151.6	2161.2
15°	2091.9	2091.9	2098.8	2117.7	2129.5
17.5°	2041.3	2044.7	2055.3	2074.2	2087.0
20°	1987.3	1991.0	2005.0	2026.1	2041.3
22.5°	1927.3	1932.3	1946.3	1972.0	1985.1
25°	1857.1	1866.5	1882.9	1908.7	1923.9
27.5°	1784.2	1794.7	1809.9	1841.9	1855.9
30°	1704.3	1711.5	1733.8	1763.0	1779.5
32.5°	1619.9	1627.0	1645.7	1681.1	1695.0
35°	1532.9	1540.1	1557.8	1589.4	1605.9
37.5°	1439.1	1445.0	1466.1	1490.7	1508.4
40°	1340.7	1348.8	1362.7	1392.2	1407.5
42.5°	1244.4	1247.8	1263.0	1292.5	1304.0
45°	1145.7	1146.9	1163.4	1186.6	1197.2
47.5°	1043.5	1046.0	1065.8	1079.8	1090.4
50°	948.4	949.7	963.7	976.7	988.5
52.5°	853.4	853.4	860.6	874.5	889.8
55°	764.3	763.0	766.5	779.5	788.8
57.5°	679.8	678.6	683.2	691.3	698.4
60°	597.5	595.0	599.7	604.7	614.0
62.5°	524.8	527.0	521.1	528.3	535.4
65°	460.2	457.8	450.6	454.3	461.2
67.5°	405.0	401.6	389.8	391.9	400.3
70°	354.3	347.5	334.5	334.5	340.4
72.5°	308.7	301.6	285.1	286.3	288.8
75°	269.9	258.4	244.1	239.4	245.3
77.5°	227.6	218.3	205.3	201.9	204.3
80°	187.9	180.7	165.5	160.9	164.3
82.5°	149.1	143.2	125.5	122.0	123.3
85°	103.4	102.2	87.9	81.1	83.2
87.5°	55.3	56.2	45.7	41.0	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)