

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: P475970

Luminaire Tested: **22GR-LD5-40-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475970
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-F125-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4194.2 lumens
Efficiency: N/A
Efficacy: 129.4 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

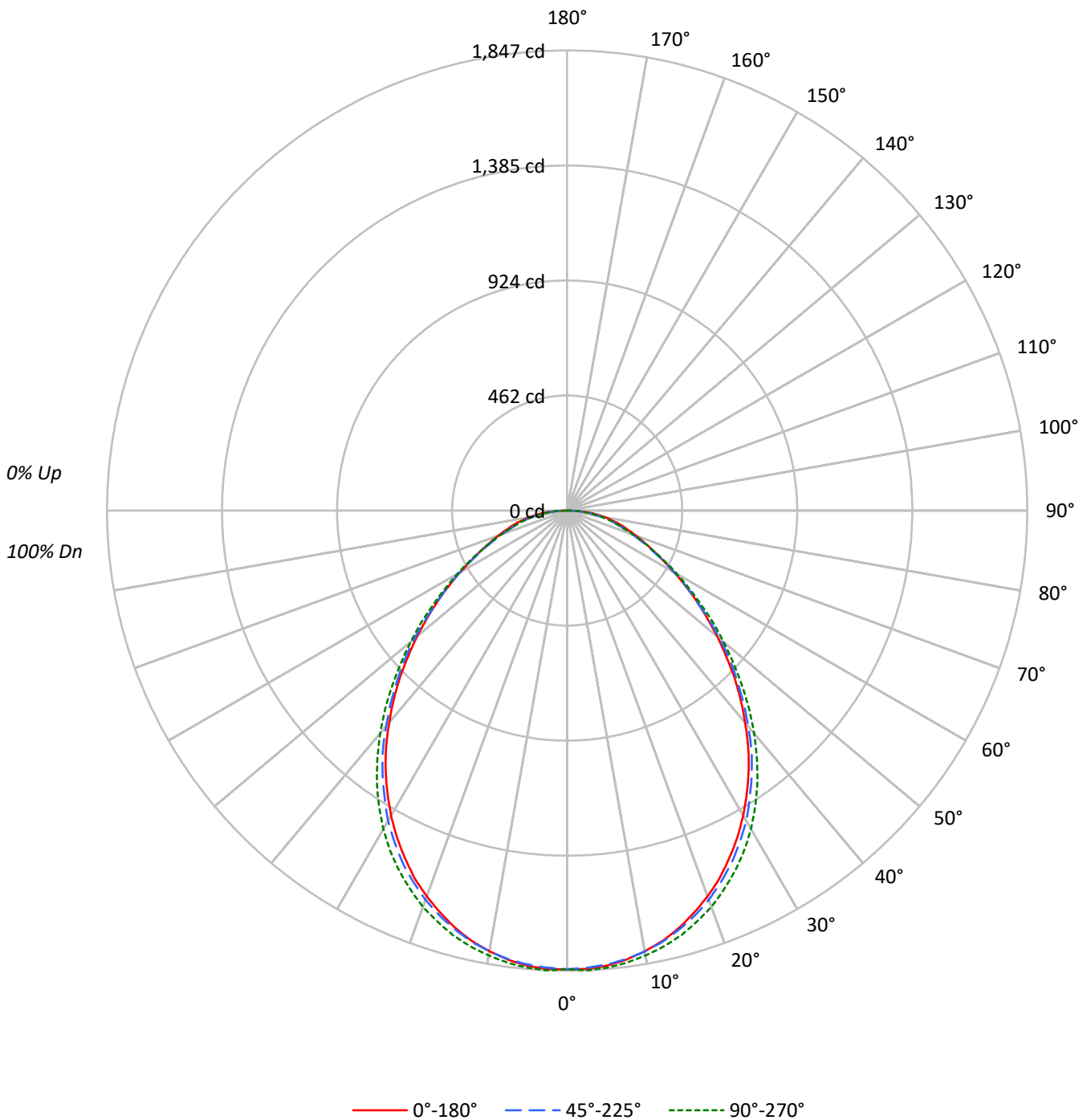
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475970

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475970

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L850-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	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°	4955	4955	4955
5°	4953	4940	4974
10°	4906	4909	4954
15°	4832	4847	4919
20°	4718	4760	4846
25°	4572	4635	4736
30°	4391	4467	4584
35°	4175	4243	4374
40°	3905	3969	4099
45°	3615	3671	3777
50°	3292	3345	3431
55°	2973	2981	3068
60°	2666	2676	2739
65°	2430	2379	2434
70°	2312	2182	2220
75°	2326	2104	2115
80°	2414	2126	2111
85°	2646	2251	2130



TEST NUMBER: P475970

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	4.1
10°-20°	491.4	11.7
20°-30°	719.3	17.1
30°-40°	808.7	19.3
40°-50°	745.7	17.8
50°-60°	574.8	13.7
60°-70°	379.3	9.0
70°-80°	220.7	5.3
80°-90°	80.4	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°	1384.6	33.0
0°-40°	2193.3	52.3
0°-60°	3513.8	83.8
0°-90°	4194.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4194.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1841	1841	1841	1841	1841	
5°	1834	1830	1829	1837	1841	174
15°	1734	1734	1740	1756	1766	488
25°	1540	1547	1561	1582	1595	708
35°	1271	1277	1292	1318	1331	792
45°	950	951	964	984	993	731
55°	634	633	635	646	654	568
65°	382	380	374	377	382	383
75°	224	214	202	198	203	236
85°	86	85	73	67	69	91
90°	0	0	0	0	0	



TEST NUMBER: P475970

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1841.2	1841.2	1841.2	1841.2	1841.2
2.5°	1841.2	1837.3	1836.3	1843.3	1847.1
5°	1833.5	1829.6	1828.6	1837.3	1841.2
7.5°	1818.0	1814.9	1816.0	1825.7	1830.6
10°	1795.6	1794.6	1796.6	1807.2	1813.1
12.5°	1769.4	1768.3	1772.2	1783.8	1791.8
15°	1734.3	1734.3	1740.0	1755.7	1765.5
17.5°	1692.4	1695.2	1704.0	1719.7	1730.2
20°	1647.6	1650.7	1662.2	1679.8	1692.4
22.5°	1597.9	1602.0	1613.6	1635.0	1645.8
25°	1539.7	1547.4	1561.1	1582.4	1595.0
27.5°	1479.2	1487.9	1500.6	1527.1	1538.7
30°	1413.0	1418.9	1437.5	1461.7	1475.3
32.5°	1343.0	1348.9	1364.4	1393.7	1405.3
35°	1270.9	1276.8	1291.5	1317.7	1331.4
37.5°	1193.1	1198.0	1215.5	1235.9	1250.5
40°	1111.5	1118.2	1129.8	1154.3	1166.9
42.5°	1031.7	1034.5	1047.1	1071.6	1081.1
45°	949.8	950.8	964.5	983.8	992.6
47.5°	865.1	867.2	883.6	895.2	904.0
50°	786.3	787.4	798.9	809.8	819.5
52.5°	707.5	707.5	713.5	725.0	737.7
55°	633.6	632.6	635.4	646.3	654.0
57.5°	563.6	562.6	566.4	573.1	579.1
60°	495.4	493.3	497.2	501.3	509.0
62.5°	435.1	436.9	432.0	438.0	443.9
65°	381.6	379.5	373.6	376.7	382.3
67.5°	335.7	332.9	323.1	324.9	331.9
70°	293.8	288.1	277.3	277.3	282.2
72.5°	255.9	250.0	236.4	237.4	239.5
75°	223.7	214.2	202.4	198.5	203.4
77.5°	188.7	181.0	170.2	167.4	169.4
80°	155.8	149.8	137.2	133.4	136.2
82.5°	123.6	118.7	104.0	101.2	102.2
85°	85.7	84.7	72.9	67.2	69.0
87.5°	45.8	46.6	37.8	34.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)