

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: P476090

Luminaire Tested: **22GR-LD5-40-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476090
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-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: 4128.4 lumens
Efficiency: N/A
Efficacy: 127.4 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

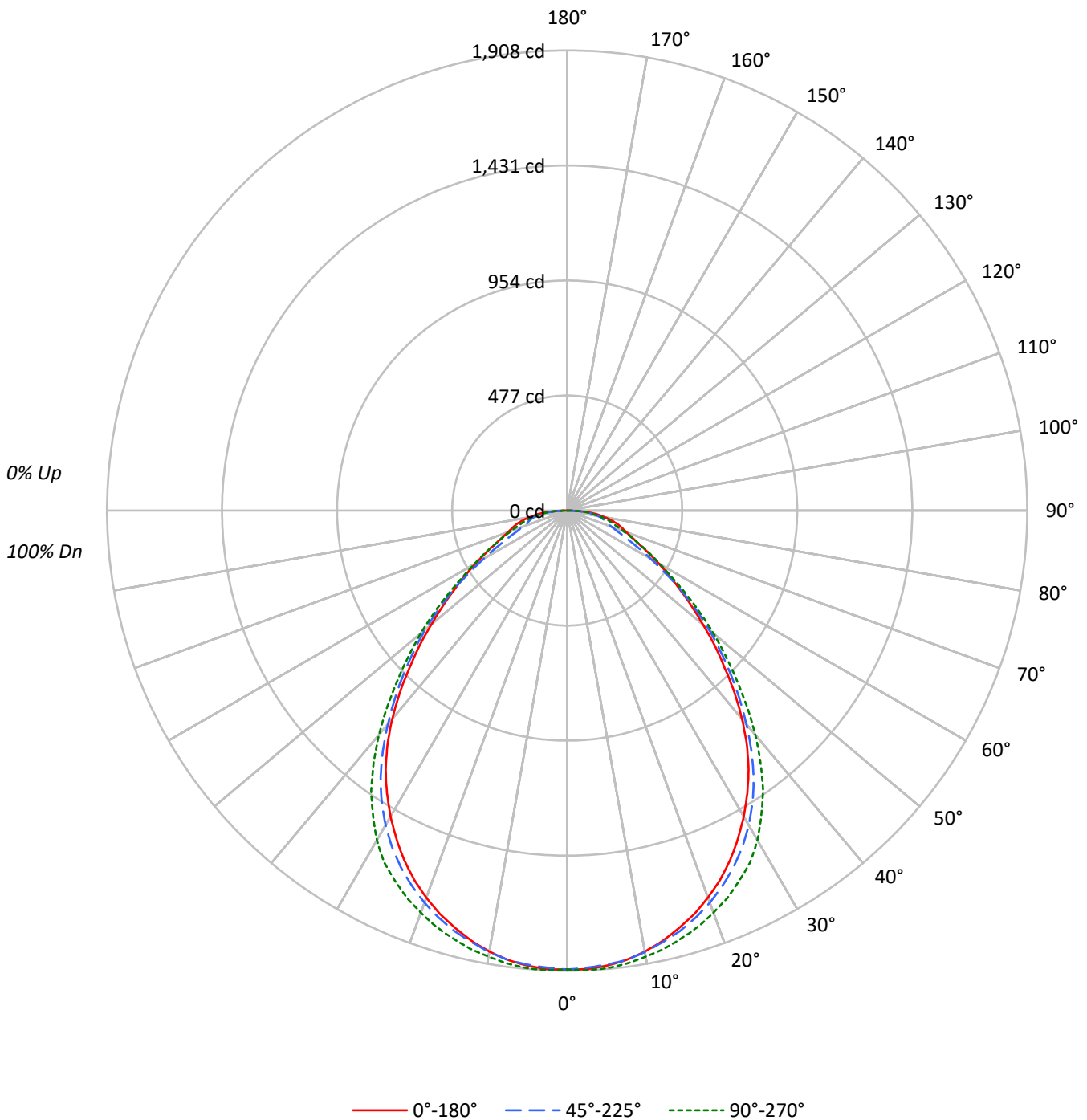
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5121	5121	5121
5°	5117	5104	5146
10°	5074	5079	5132
15°	4993	5029	5114
20°	4890	4954	5080
25°	4747	4844	5022
30°	4550	4678	4903
35°	4310	4430	4654
40°	3964	4061	4264
45°	3520	3648	3780
50°	3075	3216	3313
55°	2673	2710	2809
60°	2352	2155	2399
65°	2090	1722	2102
70°	2052	1529	1939
75°	2243	1681	1981
80°	2462	1998	2120
85°	2942	2319	2374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	4.4
10°-20°	510.0	12.4
20°-30°	753.0	18.2
30°-40°	842.5	20.4
40°-50°	739.9	17.9
50°-60°	523.5	12.7
60°-70°	304.7	7.4
70°-80°	189.9	4.6
80°-90°	85.0	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°	1442.8	34.9
0°-40°	2285.4	55.4
0°-60°	3548.8	86.0
0°-90°	4128.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4128.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1903	1903	1903	1903	1903	
5°	1894	1890	1890	1899	1905	180
15°	1792	1796	1805	1824	1836	505
25°	1599	1606	1632	1670	1691	734
35°	1312	1318	1349	1389	1417	816
45°	925	936	959	982	993	715
55°	570	581	578	588	599	515
65°	328	302	270	295	330	333
75°	216	186	162	166	190	225
85°	95	99	75	73	77	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1903.0	1903.0	1903.0	1903.0	1903.0
2.5°	1903.0	1899.2	1897.2	1904.0	1907.8
5°	1894.3	1889.5	1889.5	1899.2	1905.0
7.5°	1879.1	1874.2	1879.8	1888.5	1894.3
10°	1856.9	1854.9	1858.7	1870.4	1878.0
12.5°	1827.9	1828.9	1832.7	1851.1	1860.7
15°	1792.2	1796.0	1805.0	1824.1	1835.5
17.5°	1753.8	1756.8	1770.1	1792.2	1808.8
20°	1707.7	1713.3	1729.8	1757.6	1774.1
22.5°	1656.5	1663.3	1683.5	1717.3	1737.5
25°	1598.9	1605.5	1631.5	1670.0	1691.4
27.5°	1533.5	1543.9	1572.9	1615.2	1644.0
30°	1464.2	1472.8	1505.4	1553.6	1577.8
32.5°	1390.1	1400.5	1431.3	1477.4	1498.8
35°	1311.9	1317.7	1348.6	1389.1	1416.8
37.5°	1223.5	1226.3	1255.1	1292.8	1317.7
40°	1128.3	1130.0	1156.0	1191.7	1213.8
42.5°	1028.9	1029.9	1058.0	1084.7	1104.1
45°	925.0	935.7	958.6	981.8	993.3
47.5°	831.5	839.4	860.6	880.7	891.4
50°	734.5	753.6	768.1	778.8	791.3
52.5°	650.7	667.0	670.8	683.3	694.0
55°	569.7	581.4	577.6	588.1	598.8
57.5°	501.5	495.6	483.1	501.5	515.0
60°	437.0	421.5	400.4	425.6	445.7
62.5°	379.2	354.3	328.3	353.2	386.9
65°	328.3	302.3	270.5	294.7	330.1
67.5°	289.8	262.8	225.1	249.3	285.0
70°	260.8	233.0	194.3	214.7	246.5
72.5°	237.9	207.8	174.2	187.7	214.7
75°	215.7	185.7	161.7	165.5	190.5
77.5°	189.7	167.6	148.2	146.2	165.5
80°	158.9	152.0	128.9	126.1	136.8
82.5°	130.9	128.1	105.9	102.9	107.0
85°	95.3	99.1	75.1	73.1	76.9
87.5°	50.2	54.8	39.5	41.5	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)