

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: P476114

Luminaire Tested: **22GR-LD5-40-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476114
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-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4211.0 lumens
Efficiency: N/A
Efficacy: 130.0 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

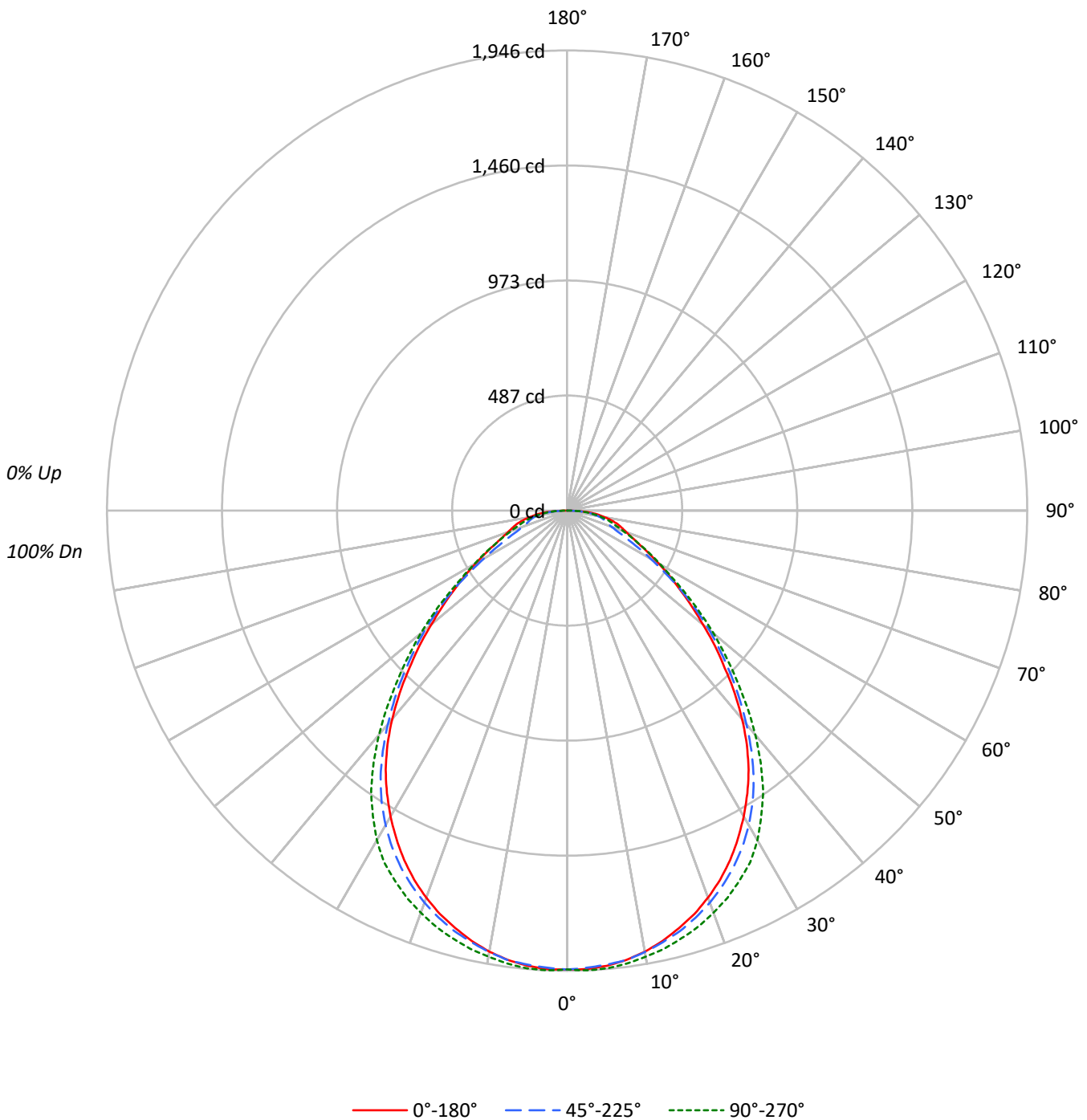
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5223	5223	5223
5°	5219	5206	5249
10°	5175	5181	5234
15°	5093	5129	5216
20°	4988	5053	5182
25°	4842	4941	5122
30°	4641	4772	5001
35°	4396	4519	4748
40°	4043	4142	4349
45°	3591	3721	3855
50°	3136	3280	3379
55°	2726	2764	2865
60°	2399	2198	2447
65°	2132	1757	2144
70°	2093	1559	1979
75°	2287	1716	2020
80°	2512	2036	2162
85°	3001	2365	2424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	4.4
10°-20°	520.2	12.4
20°-30°	768.0	18.2
30°-40°	859.4	20.4
40°-50°	754.7	17.9
50°-60°	534.0	12.7
60°-70°	310.9	7.4
70°-80°	193.7	4.6
80°-90°	86.7	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°	1471.7	34.9
0°-40°	2331.1	55.4
0°-60°	3619.8	86.0
0°-90°	4211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1932	1927	1927	1937	1943	183
15°	1828	1832	1841	1860	1872	515
25°	1631	1638	1664	1703	1725	749
35°	1338	1344	1376	1417	1445	832
45°	944	954	978	1001	1013	730
55°	581	593	589	600	611	525
65°	335	308	276	301	337	340
75°	220	189	165	169	194	230
85°	97	101	77	75	78	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.1	1941.1	1941.1	1941.1	1941.1
2.5°	1941.1	1937.2	1935.1	1942.1	1946.0
5°	1932.2	1927.3	1927.3	1937.2	1943.1
7.5°	1916.6	1911.7	1917.4	1926.3	1932.2
10°	1894.0	1892.0	1895.9	1907.8	1915.6
12.5°	1864.4	1865.5	1869.4	1888.1	1897.9
15°	1828.1	1832.0	1841.1	1860.5	1872.2
17.5°	1788.8	1792.0	1805.5	1828.1	1845.0
20°	1741.8	1747.5	1764.4	1792.7	1809.6
22.5°	1689.6	1696.6	1717.1	1751.7	1772.2
25°	1630.9	1637.6	1664.1	1703.4	1725.2
27.5°	1564.1	1574.8	1604.4	1647.5	1676.9
30°	1493.5	1502.3	1535.6	1584.7	1609.3
32.5°	1417.9	1428.5	1460.0	1507.0	1528.8
35°	1338.1	1344.1	1375.5	1416.8	1445.2
37.5°	1248.0	1250.8	1280.2	1318.6	1344.1
40°	1150.8	1152.6	1179.1	1215.5	1238.1
42.5°	1049.5	1050.5	1079.1	1106.4	1126.1
45°	943.5	954.4	977.8	1001.4	1013.1
47.5°	848.2	856.2	877.8	898.3	909.2
50°	749.2	768.7	783.5	794.4	807.1
52.5°	663.7	680.4	684.3	697.0	707.9
55°	581.1	593.1	589.2	599.8	610.7
57.5°	511.5	505.5	492.8	511.5	525.3
60°	445.8	429.9	408.4	434.1	454.6
62.5°	386.8	361.4	334.9	360.3	394.6
65°	334.9	308.4	275.9	300.6	336.7
67.5°	295.6	268.1	229.6	254.3	290.7
70°	266.0	237.7	198.2	219.0	251.5
72.5°	242.6	212.0	177.7	191.5	219.0
75°	220.0	189.4	165.0	168.9	194.3
77.5°	193.5	170.9	151.2	149.1	168.9
80°	162.1	155.1	131.4	128.6	139.5
82.5°	133.5	130.7	108.1	105.0	109.1
85°	97.2	101.1	76.6	74.6	78.5
87.5°	51.2	55.9	40.3	42.3	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)