

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: P476102

Luminaire Tested: **22GR-LD5-40-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476102
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-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4206.8 lumens
Efficiency: N/A
Efficacy: 129.8 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

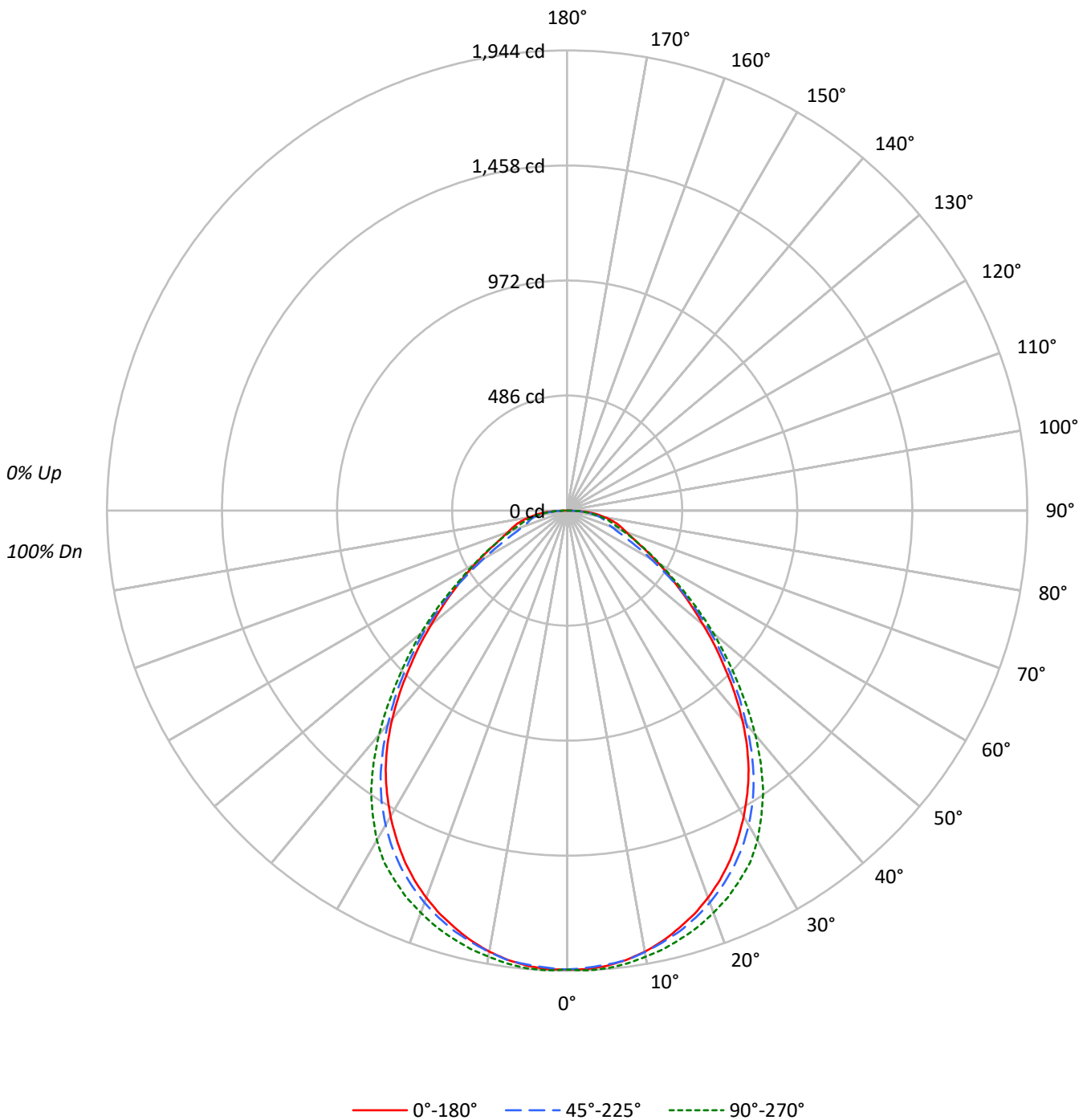
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5218	5218	5218
5°	5214	5201	5244
10°	5170	5175	5229
15°	5088	5124	5211
20°	4983	5048	5177
25°	4838	4936	5117
30°	4636	4767	4996
35°	4391	4514	4743
40°	4039	4138	4345
45°	3587	3717	3852
50°	3134	3277	3376
55°	2724	2761	2862
60°	2397	2196	2444
65°	2130	1755	2141
70°	2091	1558	1976
75°	2285	1713	2018
80°	2509	2035	2160
85°	2998	2365	2421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	4.4
10°-20°	519.7	12.4
20°-30°	767.3	18.2
30°-40°	858.5	20.4
40°-50°	753.9	17.9
50°-60°	533.5	12.7
60°-70°	310.5	7.4
70°-80°	193.5	4.6
80°-90°	86.6	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°	1470.3	34.9
0°-40°	2328.8	55.4
0°-60°	3616.2	86.0
0°-90°	4206.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4206.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1939	1939	1939	1939	1939	
5°	1930	1925	1925	1935	1941	183
15°	1826	1830	1839	1859	1870	515
25°	1629	1636	1662	1702	1724	748
35°	1337	1343	1374	1415	1444	831
45°	943	954	977	1000	1012	729
55°	581	592	589	599	610	525
65°	334	308	276	300	336	339
75°	220	189	165	169	194	230
85°	97	101	77	74	78	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1939.2	1935.3	1933.2	1940.2	1944.1
5°	1930.3	1925.4	1925.4	1935.3	1941.2
7.5°	1914.8	1909.8	1915.5	1924.4	1930.3
10°	1892.2	1890.1	1894.0	1905.9	1913.7
12.5°	1862.6	1863.6	1867.5	1886.2	1896.1
15°	1826.3	1830.2	1839.2	1858.7	1870.4
17.5°	1787.1	1790.2	1803.7	1826.3	1843.1
20°	1740.1	1745.8	1762.7	1791.0	1807.8
22.5°	1687.9	1695.0	1715.5	1750.0	1770.5
25°	1629.3	1636.0	1662.5	1701.7	1723.5
27.5°	1562.6	1573.2	1602.8	1645.9	1675.2
30°	1492.0	1500.8	1534.0	1583.1	1607.8
32.5°	1416.5	1427.1	1458.5	1505.5	1527.3
35°	1336.8	1342.8	1374.2	1415.4	1443.7
37.5°	1246.8	1249.6	1278.9	1317.3	1342.8
40°	1149.7	1151.5	1178.0	1214.3	1236.9
42.5°	1048.5	1049.5	1078.1	1105.3	1125.0
45°	942.6	953.5	976.8	1000.5	1012.1
47.5°	847.3	855.4	876.9	897.4	908.3
50°	748.5	767.9	782.7	793.6	806.3
52.5°	663.1	679.7	683.6	696.3	707.2
55°	580.6	592.5	588.6	599.2	610.1
57.5°	511.0	505.0	492.3	511.0	524.8
60°	445.3	429.5	408.0	433.7	454.2
62.5°	386.4	361.0	334.5	360.0	394.2
65°	334.5	308.1	275.6	300.3	336.3
67.5°	295.3	267.8	229.4	254.1	290.4
70°	265.8	237.5	198.0	218.8	251.2
72.5°	242.4	211.8	177.5	191.3	218.8
75°	219.8	189.2	164.8	168.7	194.1
77.5°	193.3	170.8	151.0	149.0	168.7
80°	161.9	154.9	131.3	128.5	139.4
82.5°	133.4	130.5	108.0	104.8	109.0
85°	97.1	101.0	76.6	74.5	78.4
87.5°	51.1	55.8	40.2	42.3	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)