

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: P475632

Luminaire Tested: **24GR-LD5-64-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475632
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F125-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6464.6 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

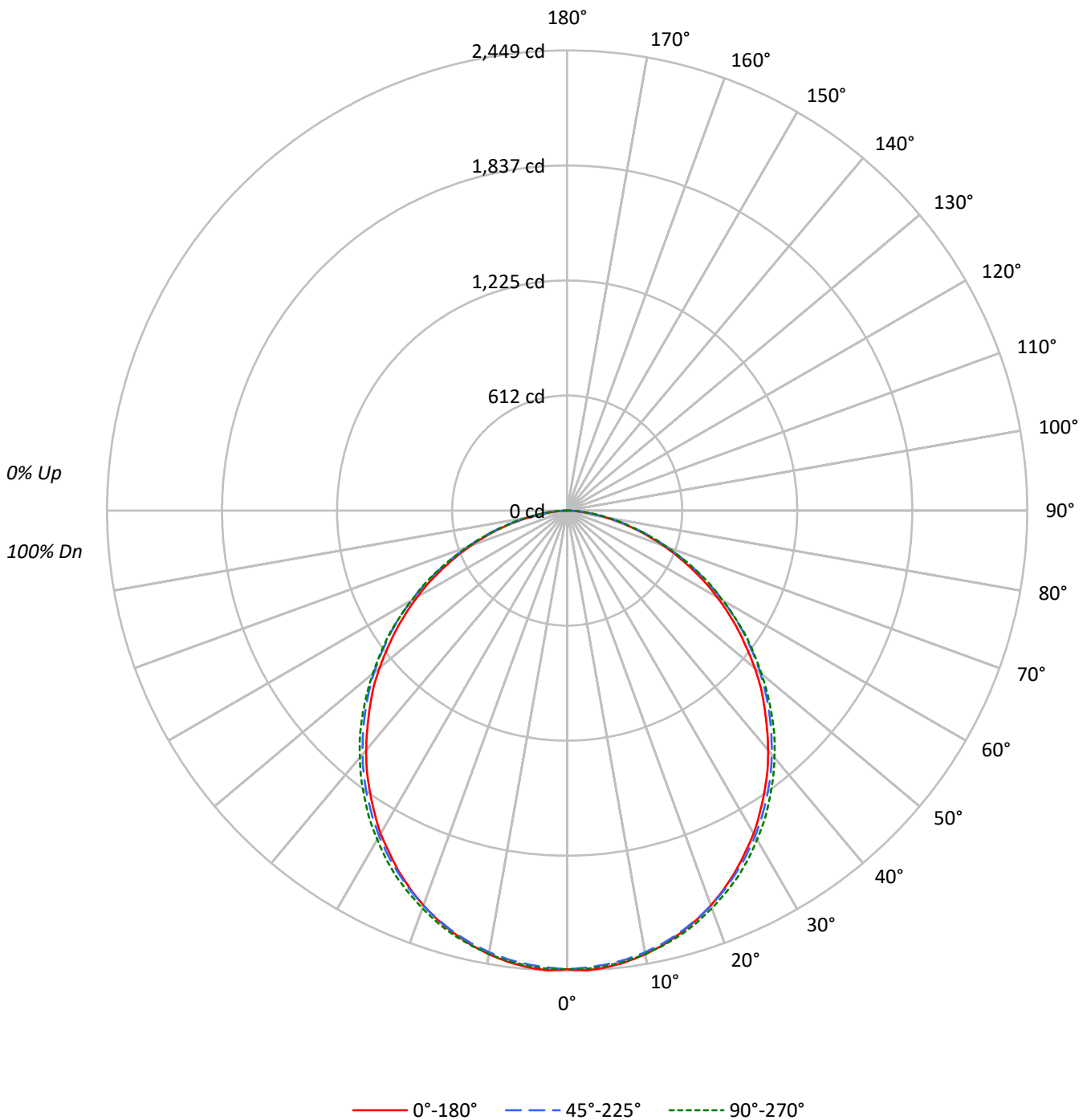
Input Watts (W): 43.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3285	3285	3285
5°	3295	3274	3284
10°	3276	3260	3274
15°	3243	3236	3256
20°	3202	3203	3224
25°	3146	3159	3192
30°	3085	3108	3141
35°	3005	3046	3082
40°	2923	2976	3015
45°	2826	2895	2932
50°	2728	2808	2827
55°	2610	2704	2723
60°	2485	2570	2573
65°	2322	2412	2424
70°	2151	2212	2204
75°	1911	1980	1985
80°	1598	1655	1718
85°	1200	1291	1335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	3.6
10°-20°	656.3	10.2
20°-30°	981.0	15.2
30°-40°	1159.0	17.9
40°-50°	1170.1	18.1
50°-60°	1021.1	15.8
60°-70°	744.4	11.5
70°-80°	401.5	6.2
80°-90°	100.5	1.6
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°	1868.0	28.9
0°-40°	3027.0	46.8
0°-60°	5218.2	80.7
0°-90°	6464.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6464.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2441	2441	2441	2441	2441	
5°	2440	2431	2424	2426	2431	231
15°	2328	2324	2323	2329	2338	657
25°	2119	2120	2128	2141	2150	976
35°	1830	1835	1855	1873	1876	1145
45°	1485	1496	1522	1541	1541	1147
55°	1113	1126	1152	1157	1161	994
65°	729	745	758	759	762	725
75°	368	371	381	382	382	391
85°	78	80	84	88	86	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2441.4	2441.4	2441.4	2441.4	2441.4
2.5°	2449.4	2440.6	2433.7	2435.1	2441.0
5°	2439.5	2430.7	2424.1	2426.3	2431.1
7.5°	2421.9	2413.9	2408.8	2411.0	2417.2
10°	2397.8	2391.2	2386.4	2389.7	2396.3
12.5°	2367.0	2360.4	2358.6	2363.3	2369.2
15°	2328.5	2323.7	2323.4	2328.9	2337.7
17.5°	2285.3	2280.5	2283.1	2290.4	2298.1
20°	2236.2	2231.8	2236.9	2246.8	2251.9
22.5°	2180.1	2176.4	2185.6	2195.8	2202.4
25°	2119.3	2119.6	2127.7	2141.2	2150.0
27.5°	2051.8	2054.4	2066.5	2079.7	2088.5
30°	1985.5	1983.3	2000.5	2014.8	2021.4
32.5°	1908.5	1909.6	1929.8	1944.4	1954.3
35°	1829.7	1834.9	1854.7	1872.6	1876.3
37.5°	1750.2	1753.9	1777.7	1795.3	1800.1
40°	1664.1	1670.7	1694.2	1710.6	1716.5
42.5°	1574.3	1582.8	1608.0	1625.3	1633.0
45°	1485.3	1495.9	1521.6	1540.6	1541.0
47.5°	1399.2	1406.8	1431.8	1448.6	1446.8
50°	1303.1	1314.5	1341.3	1351.5	1350.4
52.5°	1204.9	1222.2	1246.7	1254.8	1253.7
55°	1112.6	1126.1	1152.5	1156.9	1161.0
57.5°	1016.9	1028.7	1057.2	1059.1	1058.3
60°	923.5	934.1	955.0	960.1	956.1
62.5°	829.3	839.9	858.6	863.8	863.0
65°	729.3	745.0	757.5	758.9	761.5
67.5°	636.2	646.1	658.2	660.4	658.5
70°	546.8	555.2	562.2	563.6	560.3
72.5°	454.4	462.1	472.0	473.8	470.2
75°	367.6	371.2	380.8	382.2	381.9
77.5°	283.3	286.2	293.2	298.7	299.4
80°	206.3	207.4	213.6	217.7	221.7
82.5°	136.7	139.6	144.4	148.4	152.1
85°	77.7	79.5	83.6	87.6	86.5
87.5°	30.0	34.1	34.4	38.5	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)