

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: P475587

Luminaire Tested: **24GR-LD5-64-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475587
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-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6116.0 lumens
Efficiency: N/A
Efficacy: 140.9 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

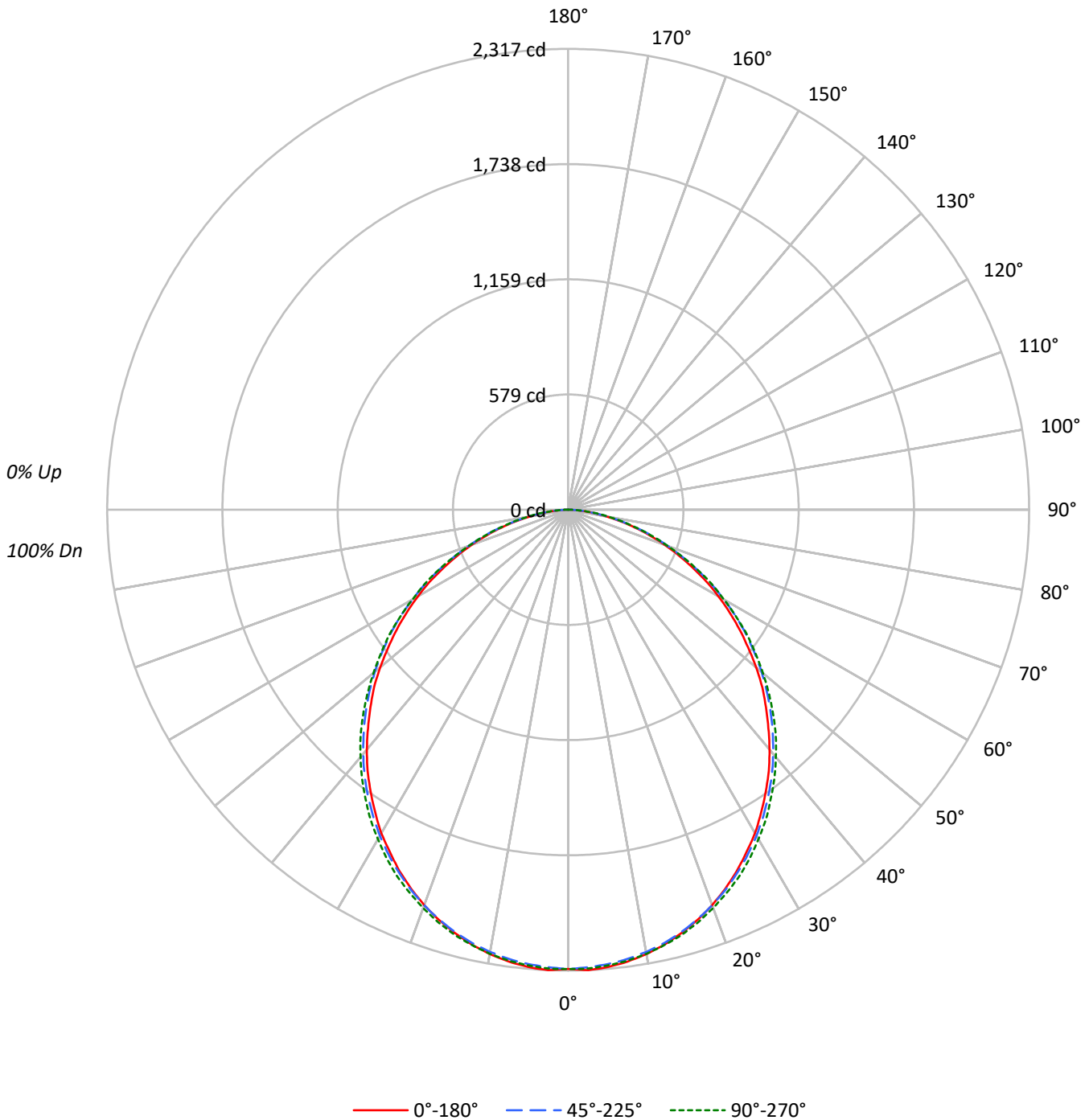
Input Watts (W): 43.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3108	3108	3108
5°	3117	3098	3106
10°	3099	3085	3097
15°	3069	3062	3081
20°	3029	3030	3051
25°	2977	2988	3020
30°	2918	2940	2971
35°	2843	2882	2916
40°	2765	2815	2852
45°	2674	2739	2774
50°	2581	2656	2674
55°	2469	2558	2577
60°	2351	2431	2434
65°	2196	2281	2294
70°	2035	2092	2085
75°	1808	1873	1878
80°	1512	1566	1626
85°	1135	1220	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.2	3.6
10°-20°	620.9	10.2
20°-30°	928.1	15.2
30°-40°	1096.5	17.9
40°-50°	1107.0	18.1
50°-60°	966.1	15.8
60°-70°	704.3	11.5
70°-80°	379.8	6.2
80°-90°	95.1	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°	1767.3	28.9
0°-40°	2863.8	46.8
0°-60°	4936.8	80.7
0°-90°	6116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2310	2310	2310	2310	2310	
5°	2308	2300	2293	2296	2300	219
15°	2203	2198	2198	2203	2212	621
25°	2005	2005	2013	2026	2034	923
35°	1731	1736	1755	1772	1775	1083
45°	1405	1415	1440	1458	1458	1085
55°	1053	1065	1090	1094	1098	941
65°	690	705	717	718	720	686
75°	348	351	360	362	361	370
85°	74	75	79	83	82	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2309.7	2309.7	2309.7	2309.7	2309.7
2.5°	2317.4	2309.0	2302.4	2303.8	2309.4
5°	2308.0	2299.7	2293.4	2295.5	2300.0
7.5°	2291.4	2283.7	2278.9	2281.0	2286.8
10°	2268.5	2262.2	2257.7	2260.8	2267.1
12.5°	2239.3	2233.1	2231.4	2235.9	2241.4
15°	2202.9	2198.4	2198.1	2203.3	2211.6
17.5°	2162.0	2157.5	2160.0	2166.9	2174.2
20°	2115.6	2111.4	2116.3	2125.6	2130.5
22.5°	2062.5	2059.1	2067.7	2077.4	2083.7
25°	2005.0	2005.3	2013.0	2025.8	2034.1
27.5°	1941.2	1943.6	1955.1	1967.5	1975.9
30°	1878.4	1876.4	1892.6	1906.2	1912.4
32.5°	1805.6	1806.7	1825.7	1839.6	1849.0
35°	1731.1	1735.9	1754.7	1771.6	1775.1
37.5°	1655.8	1659.3	1681.9	1698.5	1703.0
40°	1574.4	1580.6	1602.8	1618.4	1624.0
42.5°	1489.4	1497.4	1521.3	1537.6	1544.9
45°	1405.2	1415.2	1439.5	1457.5	1457.9
47.5°	1323.7	1331.0	1354.6	1370.5	1368.8
50°	1232.9	1243.6	1268.9	1278.6	1277.6
52.5°	1140.0	1156.3	1179.5	1187.1	1186.1
55°	1052.6	1065.4	1090.4	1094.5	1098.4
57.5°	962.1	973.2	1000.2	1002.0	1001.3
60°	873.7	883.7	903.5	908.4	904.5
62.5°	784.6	794.6	812.3	817.2	816.5
65°	689.9	704.8	716.6	718.0	720.4
67.5°	601.9	611.2	622.7	624.8	623.0
70°	517.3	525.3	531.8	533.2	530.1
72.5°	429.9	437.2	446.6	448.3	444.8
75°	347.7	351.2	360.2	361.6	361.3
77.5°	268.0	270.8	277.4	282.6	283.3
80°	195.2	196.2	202.1	205.9	209.8
82.5°	129.3	132.1	136.6	140.4	143.9
85°	73.5	75.2	79.0	82.9	81.8
87.5°	28.4	32.2	32.6	36.4	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)