

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: P475542

Luminaire Tested: **24GR-LD5-64-F1-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475542
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F1-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ F1 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6337.8 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

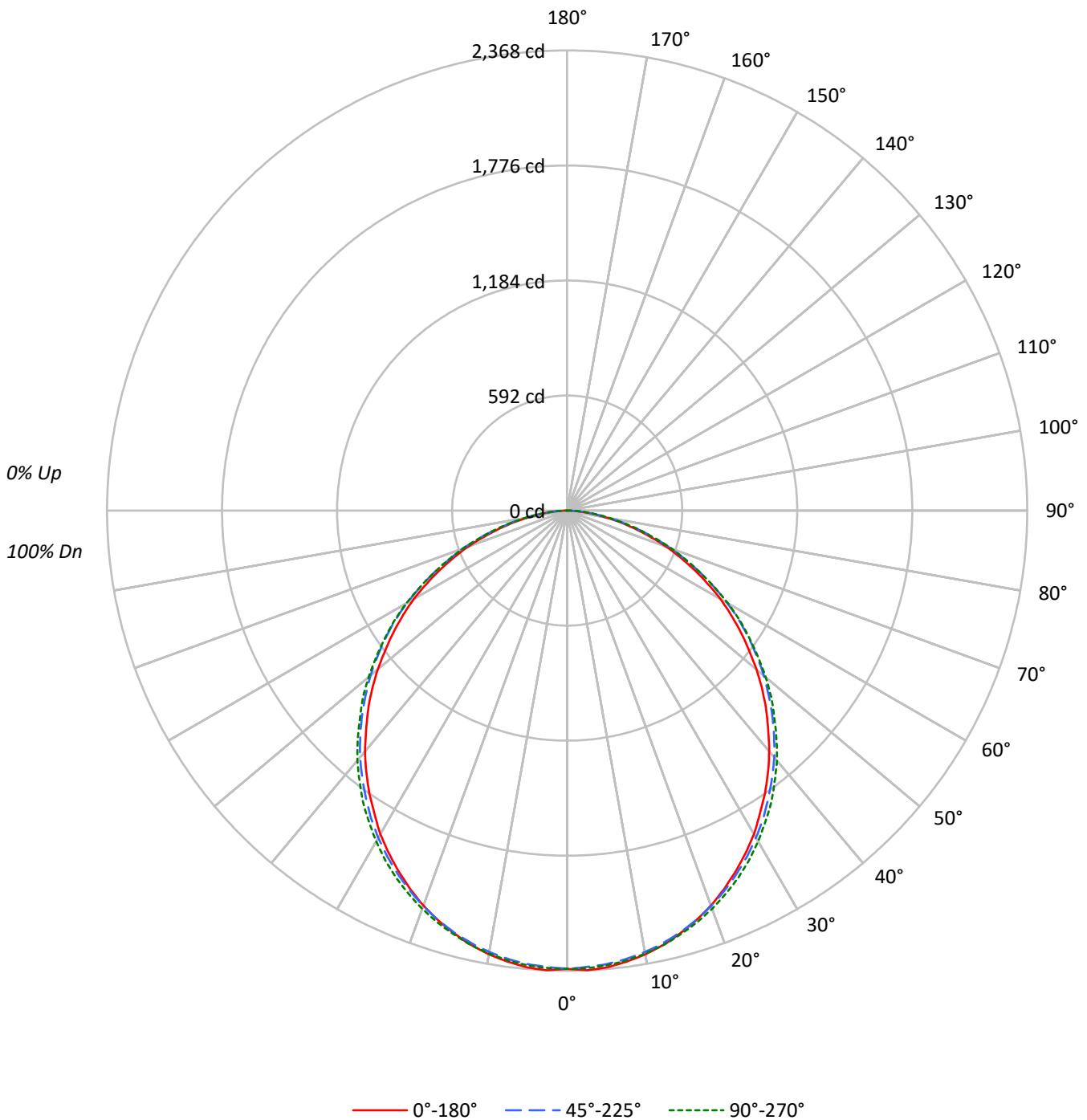
Input Watts (W): 43.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3173	3173	3173
5°	3187	3164	3172
10°	3168	3151	3162
15°	3137	3131	3145
20°	3097	3101	3122
25°	3042	3063	3094
30°	2987	3020	3054
35°	2916	2965	3010
40°	2842	2913	2950
45°	2757	2841	2870
50°	2663	2766	2791
55°	2559	2673	2687
60°	2454	2562	2573
65°	2299	2408	2402
70°	2130	2227	2249
75°	1887	1997	2010
80°	1570	1685	1724
85°	1190	1304	1468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.9	3.5
10°-20°	634.5	10.0
20°-30°	950.7	15.0
30°-40°	1128.0	17.8
40°-50°	1145.6	18.1
50°-60°	1008.9	15.9
60°-70°	741.3	11.7
70°-80°	403.2	6.4
80°-90°	102.7	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°	1808.2	28.5
0°-40°	2936.1	46.3
0°-60°	5090.6	80.3
0°-90°	6337.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6337.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2358	2358	2358	2358	2358	
5°	2359	2350	2343	2343	2349	224
15°	2252	2248	2248	2251	2258	635
25°	2049	2052	2063	2075	2084	944
35°	1775	1785	1805	1823	1832	1110
45°	1449	1461	1493	1510	1508	1117
55°	1091	1106	1139	1150	1146	975
65°	722	734	756	762	755	716
75°	363	370	384	385	387	386
85°	77	79	84	92	95	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2358.2	2358.2	2358.2	2358.2	2358.2
2.5°	2368.1	2358.8	2350.7	2350.7	2356.3
5°	2359.4	2349.5	2342.6	2342.6	2348.9
7.5°	2341.4	2333.3	2327.7	2327.7	2334.6
10°	2319.0	2310.9	2306.6	2307.2	2314.7
12.5°	2289.2	2281.7	2279.9	2281.1	2290.4
15°	2251.9	2247.5	2247.5	2250.7	2257.5
17.5°	2210.3	2205.9	2209.0	2213.4	2222.1
20°	2163.0	2159.9	2165.5	2172.3	2180.4
22.5°	2108.9	2107.7	2117.0	2126.3	2134.4
25°	2049.3	2051.8	2062.9	2074.8	2084.1
27.5°	1987.7	1990.2	2005.8	2018.2	2027.5
30°	1922.5	1923.7	1943.6	1958.5	1965.4
32.5°	1846.6	1856.6	1877.7	1892.0	1898.2
35°	1775.2	1785.1	1805.0	1823.0	1832.3
37.5°	1697.5	1706.2	1732.3	1751.5	1754.7
40°	1617.9	1626.0	1658.3	1674.5	1679.4
42.5°	1530.9	1546.4	1575.6	1591.8	1594.9
45°	1448.8	1460.7	1493.0	1510.4	1508.5
47.5°	1361.2	1374.3	1406.0	1422.7	1425.8
50°	1272.3	1287.2	1321.4	1332.6	1333.2
52.5°	1179.1	1198.4	1229.4	1244.4	1239.4
55°	1090.8	1106.4	1139.3	1149.9	1145.5
57.5°	1000.1	1017.5	1047.9	1053.5	1054.2
60°	911.8	926.1	952.2	957.8	956.0
62.5°	814.9	829.2	852.8	858.4	854.0
65°	722.2	734.1	756.4	762.0	754.6
67.5°	630.3	642.1	659.5	668.2	660.1
70°	541.4	550.7	566.2	571.2	571.8
72.5°	446.9	463.7	474.9	474.2	472.4
75°	363.0	370.4	384.1	385.4	386.6
77.5°	282.8	284.7	299.0	302.7	300.2
80°	202.6	209.5	217.5	221.9	222.5
82.5°	133.6	138.6	145.4	152.9	152.9
85°	77.1	78.9	84.5	92.0	95.1
87.5°	31.1	34.2	39.8	45.4	46.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)