

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: P475841

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475841
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-FGW080-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4839.6 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

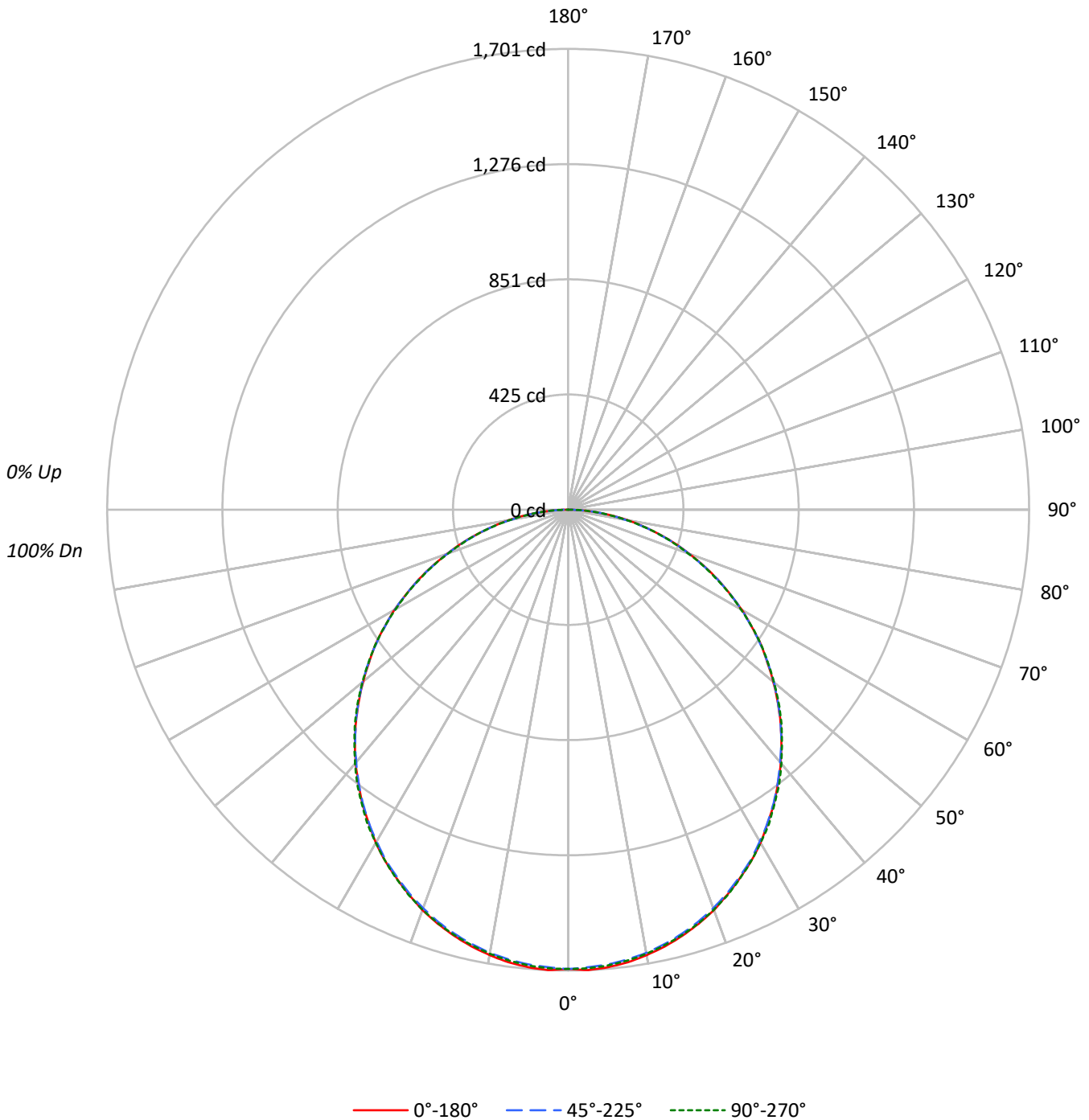
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2281	2281	2281
5°	2289	2275	2281
10°	2281	2269	2274
15°	2268	2257	2264
20°	2251	2241	2250
25°	2227	2220	2229
30°	2206	2197	2206
35°	2174	2171	2179
40°	2143	2138	2149
45°	2108	2108	2118
50°	2068	2074	2074
55°	2039	2031	2038
60°	1993	1991	1978
65°	1935	1934	1921
70°	1868	1864	1853
75°	1797	1791	1794
80°	1715	1681	1689
85°	1522	1522	1539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	3.3
10°-20°	457.9	9.5
20°-30°	690.3	14.3
30°-40°	827.3	17.1
40°-50°	854.7	17.7
50°-60°	774.1	16.0
60°-70°	599.6	12.4
70°-80°	363.6	7.5
80°-90°	111.7	2.3
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°	1308.5	27.0
0°-40°	2135.8	44.1
0°-60°	3764.6	77.8
0°-90°	4839.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4839.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1695	1688	1685	1685	1688	161
15°	1628	1623	1621	1622	1625	459
25°	1500	1497	1496	1499	1501	692
35°	1324	1319	1322	1324	1326	828
45°	1108	1106	1108	1110	1113	854
55°	869	864	866	867	869	774
65°	608	605	607	606	604	601
75°	346	346	344	341	345	366
85°	99	100	99	97	100	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1695.1	1695.1	1695.1	1695.1	1695.1
2.5°	1701.1	1695.1	1690.7	1690.7	1694.5
5°	1695.1	1688.5	1684.7	1684.7	1688.5
7.5°	1685.2	1678.1	1674.8	1674.8	1678.1
10°	1669.3	1663.9	1661.1	1661.1	1664.4
12.5°	1650.7	1645.8	1642.5	1643.1	1646.3
15°	1628.3	1623.3	1620.6	1621.7	1625.0
17.5°	1602.0	1597.1	1594.9	1596.5	1600.3
20°	1572.4	1566.4	1565.3	1566.9	1571.3
22.5°	1536.8	1533.0	1532.4	1535.2	1539.0
25°	1500.1	1496.8	1495.7	1499.0	1501.2
27.5°	1462.3	1456.3	1458.5	1459.0	1462.3
30°	1419.6	1414.1	1414.1	1416.3	1419.6
32.5°	1370.3	1367.0	1369.8	1372.5	1377.4
35°	1323.8	1318.8	1321.6	1323.8	1326.5
37.5°	1271.2	1270.1	1270.6	1273.9	1278.3
40°	1220.2	1217.0	1217.0	1221.3	1223.5
42.5°	1164.4	1161.6	1163.8	1166.0	1167.1
45°	1108.0	1105.8	1108.0	1109.6	1112.9
47.5°	1047.7	1048.3	1048.8	1049.9	1053.2
50°	988.0	990.2	990.8	993.0	990.8
52.5°	926.1	926.7	928.9	929.4	930.0
55°	869.2	864.2	865.9	867.0	868.6
57.5°	802.4	800.7	800.7	802.4	803.5
60°	740.5	737.2	739.9	736.6	735.0
62.5°	671.5	672.6	673.7	673.1	670.4
65°	607.9	604.6	607.4	605.7	603.5
67.5°	541.1	538.4	539.5	538.9	538.4
70°	474.8	474.8	473.7	471.0	471.0
72.5°	412.4	409.1	410.2	406.9	406.9
75°	345.6	345.6	344.5	341.2	345.0
77.5°	283.2	281.5	280.4	278.2	278.2
80°	221.3	217.4	216.9	216.9	218.0
82.5°	160.5	157.7	156.6	156.6	157.2
85°	98.6	100.2	98.6	96.9	99.7
87.5°	46.6	44.4	44.4	46.0	47.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)