

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: P476142

Luminaire Tested: **22GR-LD5-70-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476142
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-70-FGW080-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5999.3 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

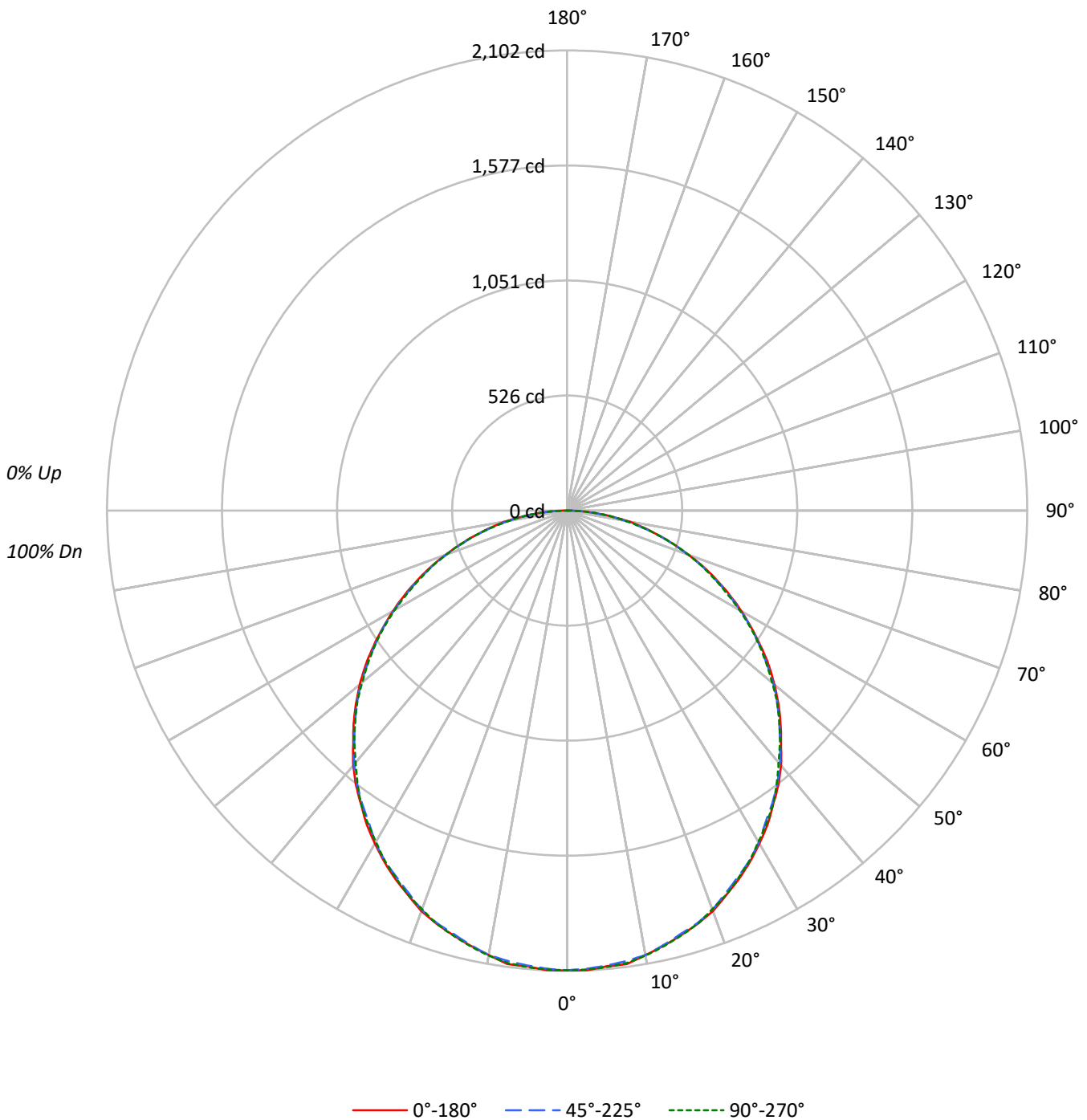
Input Watts (W): 52.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	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	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	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	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	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°	5651	5651	5651
5°	5644	5635	5653
10°	5632	5632	5642
15°	5595	5580	5600
20°	5574	5559	5549
25°	5513	5481	5497
30°	5457	5441	5429
35°	5388	5365	5388
40°	5341	5316	5279
45°	5249	5215	5215
50°	5176	5147	5117
55°	5067	5034	5025
60°	4949	4920	4901
65°	4822	4766	4744
70°	4630	4616	4630
75°	4469	4414	4450
80°	4420	4201	4173
85°	3921	3810	3866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.6	3.3
10°-20°	566.8	9.4
20°-30°	853.4	14.2
30°-40°	1024.2	17.1
40°-50°	1059.7	17.7
50°-60°	960.4	16.0
60°-70°	744.4	12.4
70°-80°	451.8	7.5
80°-90°	139.9	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°	1618.9	27.0
0°-40°	2643.1	44.1
0°-60°	4663.2	77.7
0°-90°	5999.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5999.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2100	2100	2100	2100	2100	
5°	2089	2089	2086	2091	2093	199
15°	2008	2008	2003	2012	2010	567
25°	1857	1853	1846	1853	1851	856
35°	1640	1640	1633	1635	1640	1028
45°	1379	1378	1370	1370	1370	1064
55°	1080	1078	1073	1071	1071	966
65°	757	757	748	752	745	749
75°	430	428	424	424	428	457
85°	127	125	123	123	125	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2100.0	2100.0	2100.0	2100.0	2100.0
2.5°	2101.7	2092.9	2094.7	2098.2	2098.2
5°	2089.4	2089.4	2085.9	2091.2	2092.9
7.5°	2089.4	2080.6	2075.3	2080.6	2084.1
10°	2061.2	2057.7	2061.2	2059.4	2064.7
12.5°	2036.5	2033.0	2033.0	2038.3	2038.3
15°	2008.3	2008.3	2003.0	2011.8	2010.1
17.5°	1980.1	1980.1	1976.6	1976.6	1980.1
20°	1946.6	1937.8	1941.3	1939.5	1937.8
22.5°	1900.7	1895.4	1891.9	1897.2	1899.0
25°	1856.7	1853.1	1846.1	1853.1	1851.4
27.5°	1809.0	1805.5	1803.8	1800.2	1803.8
30°	1756.2	1752.6	1750.9	1747.3	1747.3
32.5°	1703.3	1696.2	1687.4	1696.2	1694.4
35°	1640.2	1640.2	1633.2	1634.9	1640.2
37.5°	1583.8	1580.3	1576.7	1571.5	1573.2
40°	1520.3	1515.0	1513.3	1509.7	1502.7
42.5°	1446.3	1446.3	1439.2	1441.0	1439.2
45°	1379.3	1377.5	1370.4	1370.4	1370.4
47.5°	1308.7	1307.0	1301.7	1298.2	1301.7
50°	1236.4	1229.4	1229.4	1224.1	1222.3
52.5°	1161.1	1155.8	1148.7	1150.5	1147.0
55°	1080.0	1078.2	1072.9	1071.1	1071.1
57.5°	998.9	1000.6	997.1	990.0	991.8
60°	919.5	917.7	914.2	910.7	910.7
62.5°	838.4	838.4	831.4	831.4	824.3
65°	757.3	757.3	748.5	752.0	745.0
67.5°	676.6	674.9	669.6	667.8	669.6
70°	588.5	590.2	586.7	586.7	588.5
72.5°	509.1	507.4	505.6	505.6	509.1
75°	429.8	428.0	424.5	424.5	428.0
77.5°	357.5	348.7	346.9	350.4	345.1
80°	285.2	272.9	271.1	269.3	269.3
82.5°	201.0	195.7	197.5	195.7	199.2
85°	127.0	125.2	123.4	123.4	125.2
87.5°	59.9	56.4	56.4	54.7	54.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)