

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: P476056

Luminaire Tested: **22GR-LD5-50-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476056
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-A-UNV-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5000.4 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

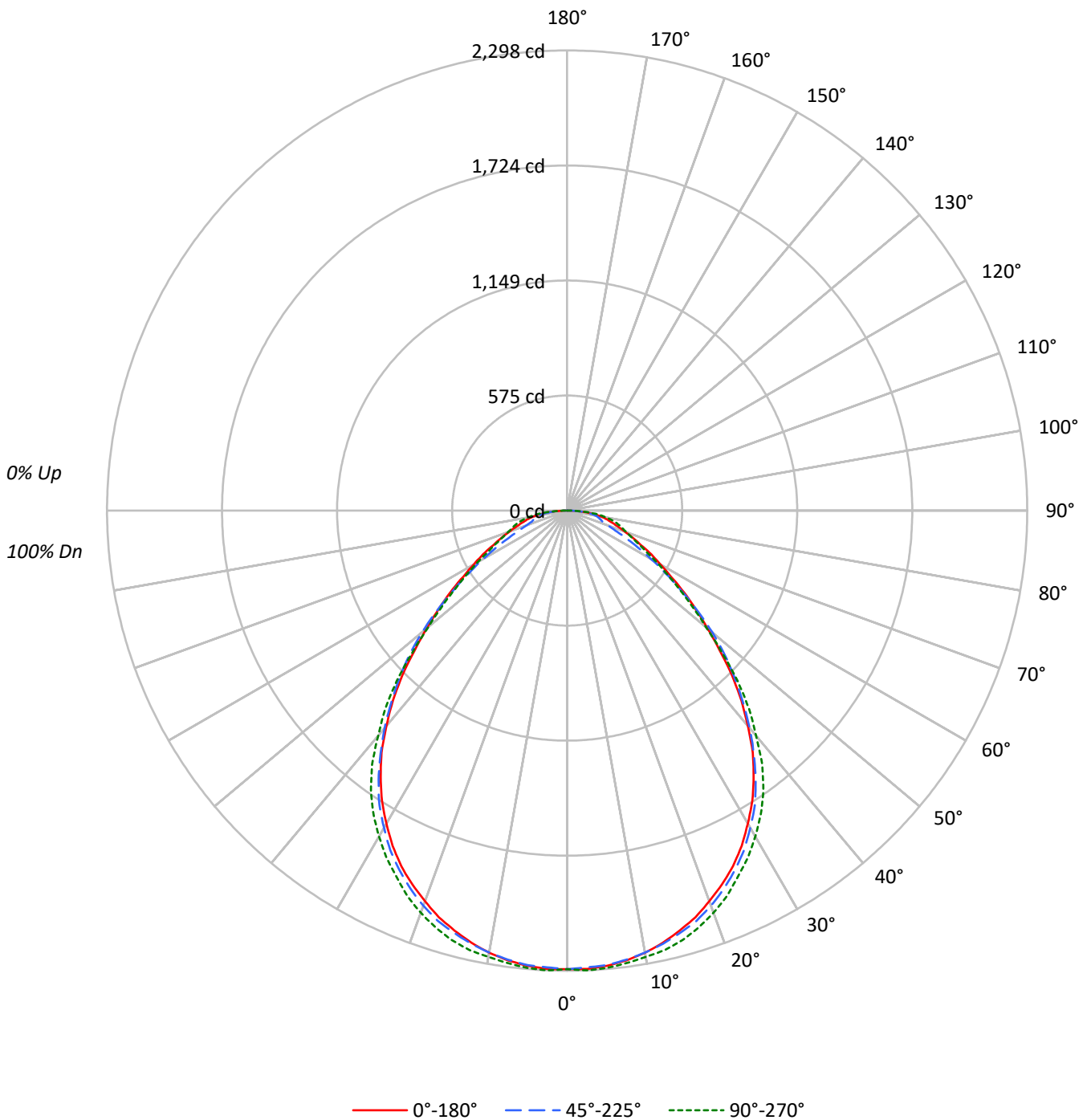
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6162	6162	6162
5°	6164	6155	6192
10°	6127	6124	6184
15°	6049	6082	6188
20°	5945	6015	6121
25°	5818	5884	5991
30°	5608	5684	5839
35°	5333	5393	5612
40°	4930	4983	5158
45°	4428	4508	4579
50°	3828	3965	3790
55°	3341	3253	3210
60°	2893	2605	2781
65°	2586	2045	2498
70°	2398	1693	2463
75°	2394	1789	2734
80°	2653	2252	3082
85°	2766	2442	3489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	4.3
10°-20°	617.2	12.3
20°-30°	912.8	18.3
30°-40°	1030.1	20.6
40°-50°	908.1	18.2
50°-60°	622.9	12.5
60°-70°	367.6	7.4
70°-80°	229.4	4.6
80°-90°	95.6	1.9
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°	1746.7	34.9
0°-40°	2776.8	55.5
0°-60°	4307.8	86.1
0°-90°	5000.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5000.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2290	2290	2290	2290	2290	
5°	2282	2277	2278	2286	2292	217
15°	2171	2174	2183	2210	2221	612
25°	1960	1967	1982	2007	2018	900
35°	1623	1637	1642	1682	1708	1011
45°	1164	1169	1184	1192	1203	894
55°	712	695	693	670	684	639
65°	406	357	321	371	392	409
75°	230	207	172	241	263	247
85°	90	84	79	104	113	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2289.9	2289.9	2289.9	2289.9	2289.9
2.5°	2291.2	2285.3	2283.2	2292.4	2298.2
5°	2281.9	2277.3	2278.5	2286.5	2292.4
7.5°	2265.6	2262.2	2262.2	2273.6	2279.5
10°	2242.2	2241.3	2241.3	2255.1	2263.1
12.5°	2209.9	2210.8	2215.4	2234.2	2248.1
15°	2171.4	2173.5	2183.1	2209.9	2221.3
17.5°	2129.5	2129.5	2148.0	2168.9	2183.1
20°	2075.9	2079.3	2100.3	2123.7	2137.5
22.5°	2021.1	2027.0	2044.5	2071.3	2083.9
25°	1959.5	1966.6	1981.7	2007.3	2017.7
27.5°	1887.5	1896.7	1913.0	1931.5	1953.7
30°	1804.7	1818.8	1829.3	1854.9	1879.2
32.5°	1720.9	1733.8	1745.5	1772.3	1800.0
35°	1623.3	1637.2	1641.8	1681.5	1708.3
37.5°	1523.2	1529.1	1531.2	1571.0	1599.9
40°	1403.5	1414.8	1418.5	1450.0	1468.4
42.5°	1288.0	1292.9	1299.7	1323.1	1345.3
45°	1163.6	1169.4	1184.5	1191.6	1203.3
47.5°	1033.3	1050.9	1068.1	1046.0	1047.2
50°	914.5	928.7	947.1	905.3	905.3
52.5°	808.6	815.7	816.9	782.1	788.9
55°	712.2	694.6	693.4	670.3	684.2
57.5°	615.5	592.4	584.1	577.0	593.3
60°	537.6	495.7	484.0	494.5	516.7
62.5°	473.6	420.0	397.8	424.6	444.6
65°	406.1	357.2	321.2	371.3	392.3
67.5°	353.8	307.3	260.8	331.6	346.7
70°	304.8	268.8	215.2	301.4	313.1
72.5°	265.4	237.4	186.3	272.2	286.4
75°	230.3	207.2	172.1	240.8	263.0
77.5°	202.6	176.7	160.7	208.1	234.9
80°	171.2	145.3	145.3	174.6	198.9
82.5°	134.9	113.9	117.6	141.9	159.5
85°	89.6	83.8	79.1	103.5	113.0
87.5°	45.3	46.5	41.9	53.6	54.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)