

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: P234104

Luminaire Tested: **22GR-LD5-50-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-A-UNV-L950-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4918.9 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

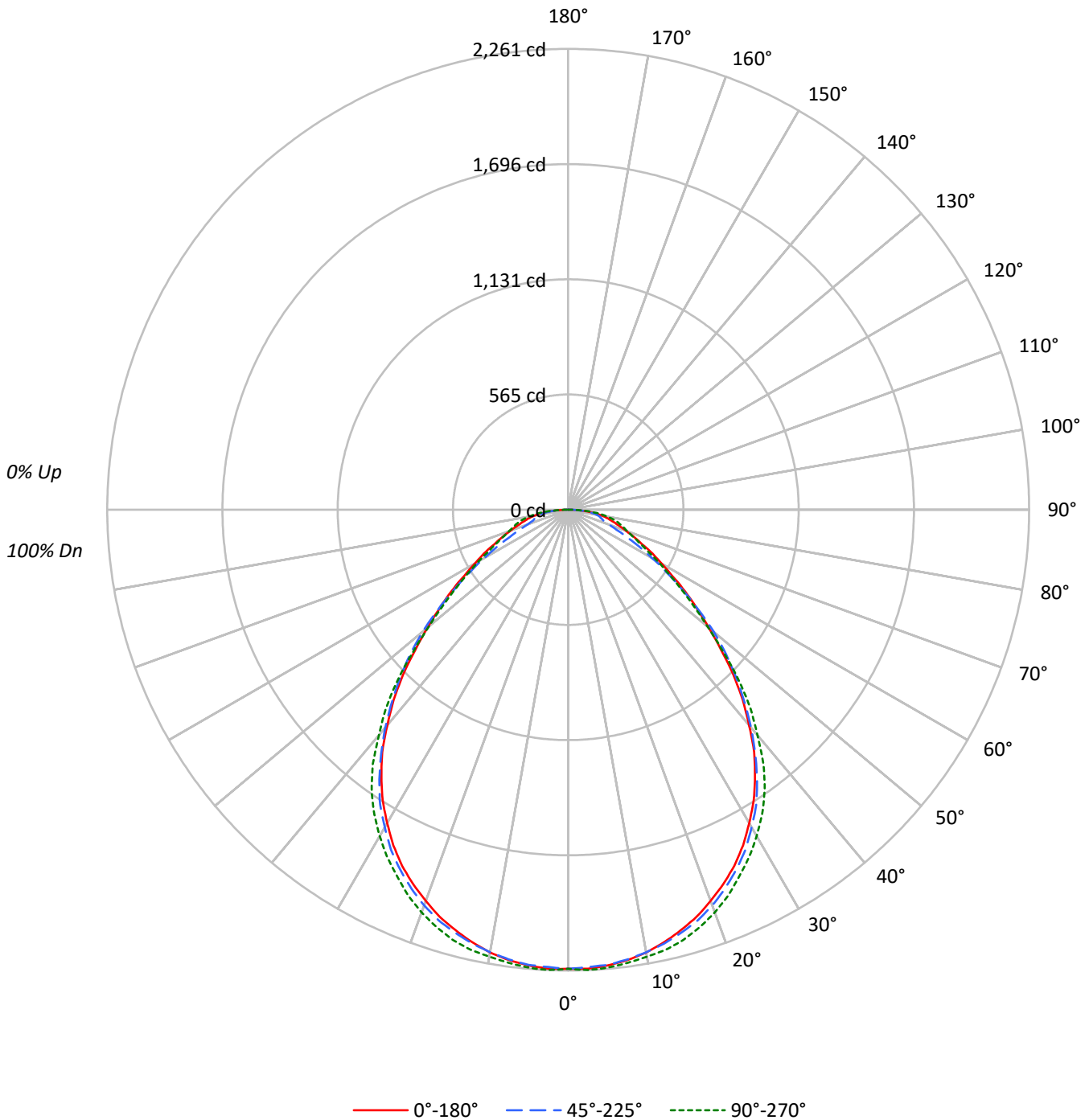
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7214	7214	7214
5°	7216	7205	7249
10°	7173	7169	7240
15°	7082	7120	7245
20°	6959	7041	7166
25°	6811	6888	7013
30°	6565	6654	6836
35°	6243	6314	6569
40°	5771	5833	6039
45°	5184	5278	5360
50°	4482	4642	4437
55°	3911	3809	3758
60°	3387	3050	3255
65°	3027	2395	2923
70°	2808	1983	2883
75°	2805	2096	3201
80°	3104	2639	3609
85°	3241	2859	4079



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	4.3
10°-20°	607.1	12.3
20°-30°	898.0	18.3
30°-40°	1013.3	20.6
40°-50°	893.3	18.2
50°-60°	612.8	12.5
60°-70°	361.6	7.4
70°-80°	225.6	4.6
80°-90°	94.1	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°	1718.3	34.9
0°-40°	2731.6	55.5
0°-60°	4237.6	86.1
0°-90°	4918.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4918.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2253	2253	2253	2253	2253	
5°	2245	2240	2241	2249	2255	213
15°	2136	2138	2147	2174	2185	602
25°	1928	1934	1949	1974	1985	885
35°	1597	1610	1615	1654	1680	995
45°	1145	1150	1165	1172	1184	879
55°	700	683	682	659	673	628
65°	400	351	316	365	386	402
75°	227	204	169	237	259	243
85°	88	82	78	102	111	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2252.7	2252.7	2252.7	2252.7	2252.7
2.5°	2253.8	2248.1	2245.8	2255.0	2260.7
5°	2244.7	2240.1	2241.2	2249.2	2255.0
7.5°	2228.7	2225.2	2225.2	2236.7	2242.4
10°	2205.7	2204.6	2204.6	2218.3	2226.3
12.5°	2173.7	2174.8	2179.5	2197.7	2211.5
15°	2136.0	2138.2	2147.4	2173.7	2185.2
17.5°	2094.7	2094.7	2113.0	2133.7	2147.4
20°	2042.0	2045.5	2066.1	2089.0	2102.7
22.5°	1988.3	1994.0	2011.2	2037.5	2050.0
25°	1927.6	1934.5	1949.3	1974.5	1984.8
27.5°	1856.7	1865.8	1881.8	1900.2	1921.9
30°	1775.3	1789.1	1799.4	1824.6	1848.7
32.5°	1693.0	1705.5	1717.0	1743.3	1770.8
35°	1596.8	1610.5	1615.1	1654.0	1680.3
37.5°	1498.3	1504.0	1506.3	1545.3	1573.9
40°	1380.5	1391.9	1395.3	1426.2	1444.5
42.5°	1267.2	1271.7	1278.6	1301.5	1323.2
45°	1144.7	1150.4	1165.3	1172.2	1183.5
47.5°	1016.5	1033.7	1050.8	1029.0	1030.2
50°	899.7	913.5	931.7	890.5	890.5
52.5°	795.5	802.4	803.5	769.2	776.0
55°	700.5	683.3	682.2	659.3	673.0
57.5°	605.5	582.7	574.6	567.7	583.8
60°	528.8	487.7	476.2	486.5	508.2
62.5°	465.9	413.2	391.5	417.8	437.3
65°	399.5	351.4	316.0	365.2	385.7
67.5°	348.0	302.2	256.4	326.2	341.1
70°	299.9	264.4	211.8	296.5	307.9
72.5°	261.0	233.5	183.2	267.8	281.6
75°	226.7	203.7	169.4	237.0	258.7
77.5°	199.2	174.0	158.0	204.9	231.2
80°	168.3	143.1	143.1	171.7	195.7
82.5°	132.8	112.2	115.6	139.7	156.8
85°	88.2	82.4	77.8	101.8	111.0
87.5°	44.7	45.8	41.2	52.7	53.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)