

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: P234084

Luminaire Tested: **22GR-LD5-50-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-F1-UNV-L950-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4933.9 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

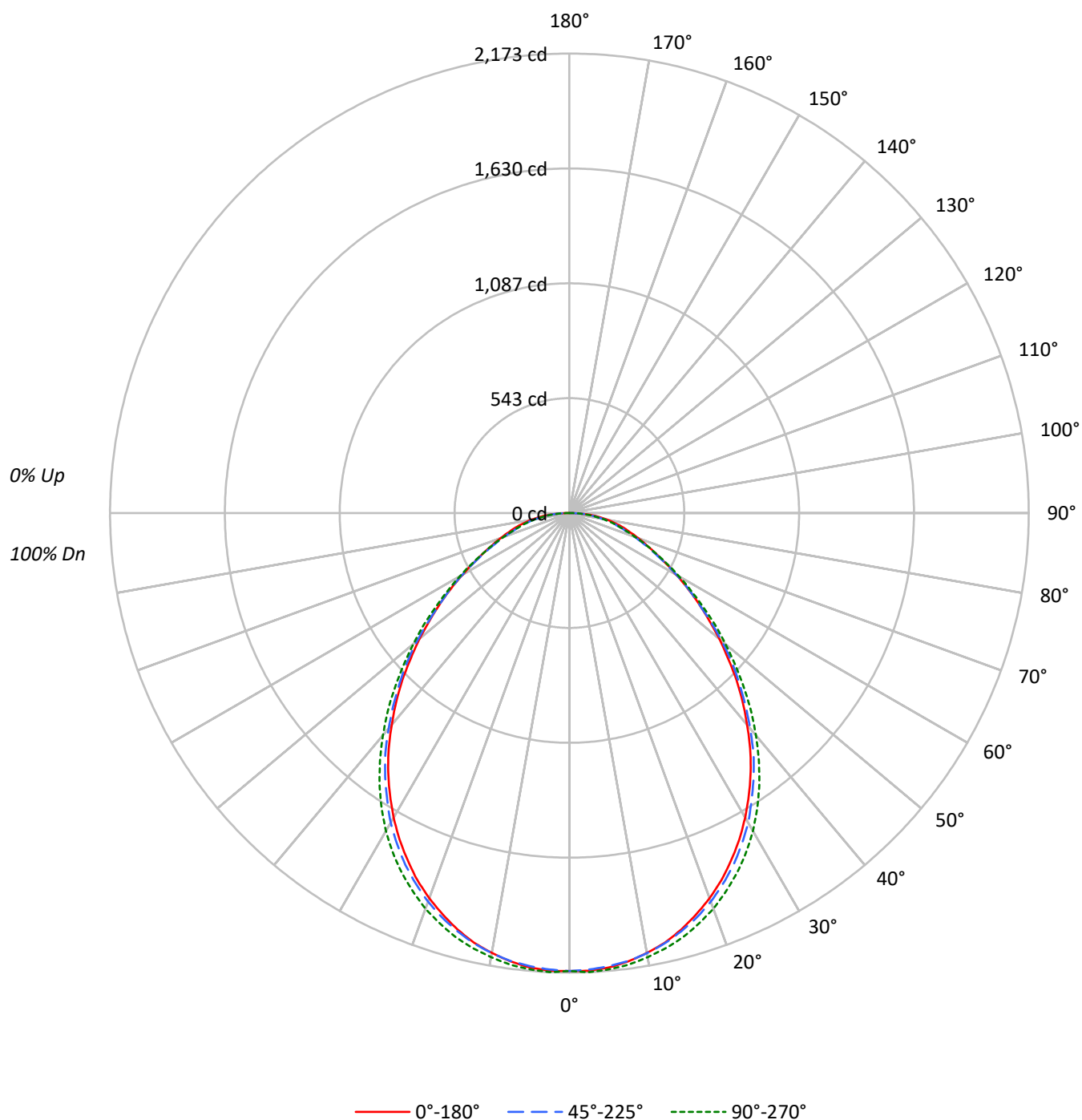
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54		
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48		
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31		
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6937	6937	6937
5°	6934	6915	6963
10°	6869	6873	6936
15°	6764	6787	6885
20°	6605	6664	6785
25°	6400	6489	6630
30°	6147	6253	6418
35°	5845	5939	6123
40°	5466	5556	5738
45°	5061	5138	5289
50°	4609	4683	4803
55°	4161	4174	4295
60°	3732	3747	3835
65°	3401	3331	3409
70°	3237	3054	3109
75°	3259	2946	2960
80°	3379	2977	2956
85°	3700	3156	2987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	4.1
10°-20°	578.1	11.7
20°-30°	846.1	17.1
30°-40°	951.3	19.3
40°-50°	877.3	17.8
50°-60°	676.1	13.7
60°-70°	446.2	9.0
70°-80°	259.7	5.3
80°-90°	94.6	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°	1628.8	33.0
0°-40°	2580.1	52.3
0°-60°	4133.5	83.8
0°-90°	4933.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4933.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2166	2166	2166	2166	2166	
5°	2157	2152	2151	2161	2166	204
15°	2040	2040	2047	2065	2077	574
25°	1811	1820	1836	1862	1876	833
35°	1495	1502	1519	1550	1566	932
45°	1117	1118	1134	1157	1168	860
55°	745	744	748	760	769	669
65°	449	446	440	443	450	450
75°	263	252	238	234	239	277
85°	101	100	86	79	81	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2166.0	2166.0	2166.0	2166.0	2166.0
2.5°	2166.0	2161.4	2160.2	2168.3	2172.9
5°	2156.9	2152.2	2151.1	2161.4	2166.0
7.5°	2138.5	2135.1	2136.2	2147.7	2153.4
10°	2112.2	2111.1	2113.4	2125.9	2132.9
12.5°	2081.3	2080.2	2084.7	2098.5	2107.7
15°	2040.1	2040.1	2047.0	2065.2	2076.7
17.5°	1990.9	1994.3	2004.6	2022.9	2035.5
20°	1938.2	1941.7	1955.4	1976.0	1990.9
22.5°	1879.8	1884.4	1898.2	1923.3	1935.9
25°	1811.1	1820.3	1836.3	1861.5	1876.3
27.5°	1740.1	1750.5	1765.3	1796.2	1810.0
30°	1662.3	1669.1	1690.9	1719.5	1735.6
32.5°	1579.9	1586.8	1605.1	1639.4	1653.1
35°	1495.1	1502.0	1519.2	1550.1	1566.1
37.5°	1403.6	1409.3	1429.9	1453.9	1471.1
40°	1307.4	1315.4	1329.1	1357.8	1372.6
42.5°	1213.5	1216.9	1231.9	1260.4	1271.9
45°	1117.4	1118.5	1134.5	1157.4	1167.7
47.5°	1017.7	1020.0	1039.5	1053.2	1063.5
50°	925.0	926.2	939.9	952.5	964.0
52.5°	832.3	832.3	839.2	852.9	867.8
55°	745.3	744.1	747.6	760.1	769.3
57.5°	662.8	661.8	666.3	674.3	681.1
60°	582.7	580.4	585.0	589.6	598.8
62.5°	511.7	514.1	508.3	515.2	522.1
65°	448.8	446.4	439.6	443.1	449.9
67.5°	394.9	391.6	380.1	382.4	390.4
70°	345.7	338.9	326.2	326.2	332.0
72.5°	301.1	294.2	278.2	279.4	281.6
75°	263.4	251.9	238.1	233.5	239.2
77.5°	222.1	212.9	200.4	196.9	199.2
80°	183.2	176.3	161.4	156.9	160.3
82.5°	145.4	139.7	122.5	119.0	120.2
85°	100.7	99.6	85.9	79.0	81.3
87.5°	53.8	55.0	44.7	40.0	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)