

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: P292122

Luminaire Tested: **22GR-LD5-43-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-F125-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4087.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

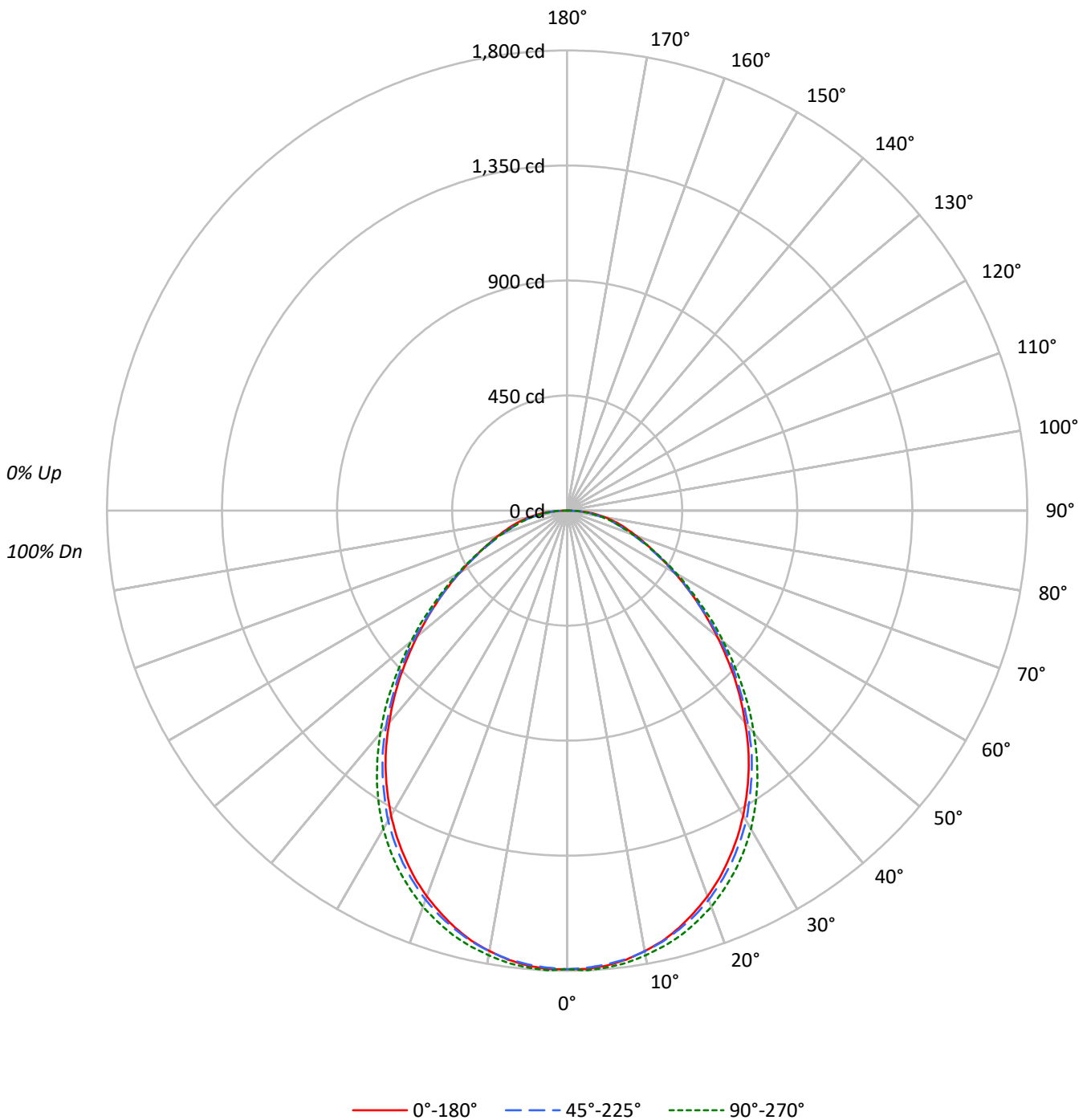
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4828	4828	4828
5°	4826	4813	4847
10°	4781	4783	4827
15°	4708	4724	4792
20°	4598	4638	4722
25°	4454	4516	4615
30°	4279	4352	4467
35°	4069	4134	4262
40°	3804	3868	3994
45°	3522	3577	3681
50°	3208	3260	3343
55°	2897	2905	2990
60°	2598	2608	2669
65°	2367	2319	2373
70°	2253	2127	2164
75°	2268	2050	2061
80°	2351	2072	2058
85°	2578	2195	2078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	4.1
10°-20°	478.8	11.7
20°-30°	700.9	17.1
30°-40°	788.0	19.3
40°-50°	726.7	17.8
50°-60°	560.1	13.7
60°-70°	369.6	9.0
70°-80°	215.1	5.3
80°-90°	78.4	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°	1349.2	33.0
0°-40°	2137.2	52.3
0°-60°	3424.0	83.8
0°-90°	4087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1794	1794	1794	1794	1794	
5°	1787	1783	1782	1790	1794	169
15°	1690	1690	1696	1711	1720	476
25°	1500	1508	1521	1542	1554	690
35°	1238	1244	1258	1284	1297	772
45°	926	926	940	959	967	713
55°	617	616	619	630	637	554
65°	372	370	364	367	373	373
75°	218	209	197	194	198	230
85°	84	82	71	65	67	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1794.2	1794.2	1794.2	1794.2	1794.2
2.5°	1794.2	1790.4	1789.5	1796.1	1799.9
5°	1786.6	1782.8	1781.9	1790.4	1794.2
7.5°	1771.5	1768.6	1769.6	1779.0	1783.8
10°	1749.6	1748.7	1750.6	1761.0	1766.7
12.5°	1724.0	1723.1	1726.9	1738.3	1745.8
15°	1689.9	1689.9	1695.6	1710.8	1720.2
17.5°	1649.1	1652.0	1660.5	1675.7	1686.1
20°	1605.5	1608.3	1619.7	1636.8	1649.1
22.5°	1557.1	1560.9	1572.3	1593.2	1603.6
25°	1500.2	1507.8	1521.1	1542.0	1554.3
27.5°	1441.4	1450.0	1462.3	1487.9	1499.3
30°	1377.0	1382.6	1400.7	1424.4	1437.6
32.5°	1308.7	1314.4	1329.5	1358.0	1369.4
35°	1238.5	1244.2	1258.4	1284.0	1297.3
37.5°	1162.6	1167.4	1184.4	1204.4	1218.6
40°	1083.0	1089.6	1101.0	1124.7	1137.0
42.5°	1005.2	1008.1	1020.4	1044.1	1053.6
45°	925.6	926.5	939.8	958.7	967.3
47.5°	843.1	844.9	861.1	872.4	881.0
50°	766.2	767.2	778.6	789.0	798.5
52.5°	689.4	689.4	695.1	706.5	718.8
55°	617.4	616.4	619.2	629.7	637.3
57.5°	549.1	548.1	551.9	558.6	564.2
60°	482.7	480.8	484.6	488.4	496.0
62.5°	423.9	425.8	421.1	426.7	432.4
65°	371.7	369.8	364.2	367.0	372.7
67.5°	327.2	324.3	314.8	316.7	323.4
70°	286.4	280.7	270.3	270.3	275.0
72.5°	249.4	243.7	230.4	231.4	233.3
75°	218.1	208.6	197.2	193.5	198.2
77.5°	184.0	176.4	166.0	163.1	165.0
80°	151.7	146.0	133.7	129.9	132.8
82.5°	120.4	115.7	101.5	98.6	99.6
85°	83.5	82.5	71.1	65.4	67.3
87.5°	44.6	45.5	37.0	33.2	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)