

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: P291956

Luminaire Tested: **22GR-LD5-40-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291956
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-LD5-40-F125-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4282.0 lumens
Efficiency: N/A
Efficacy: 129.3 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

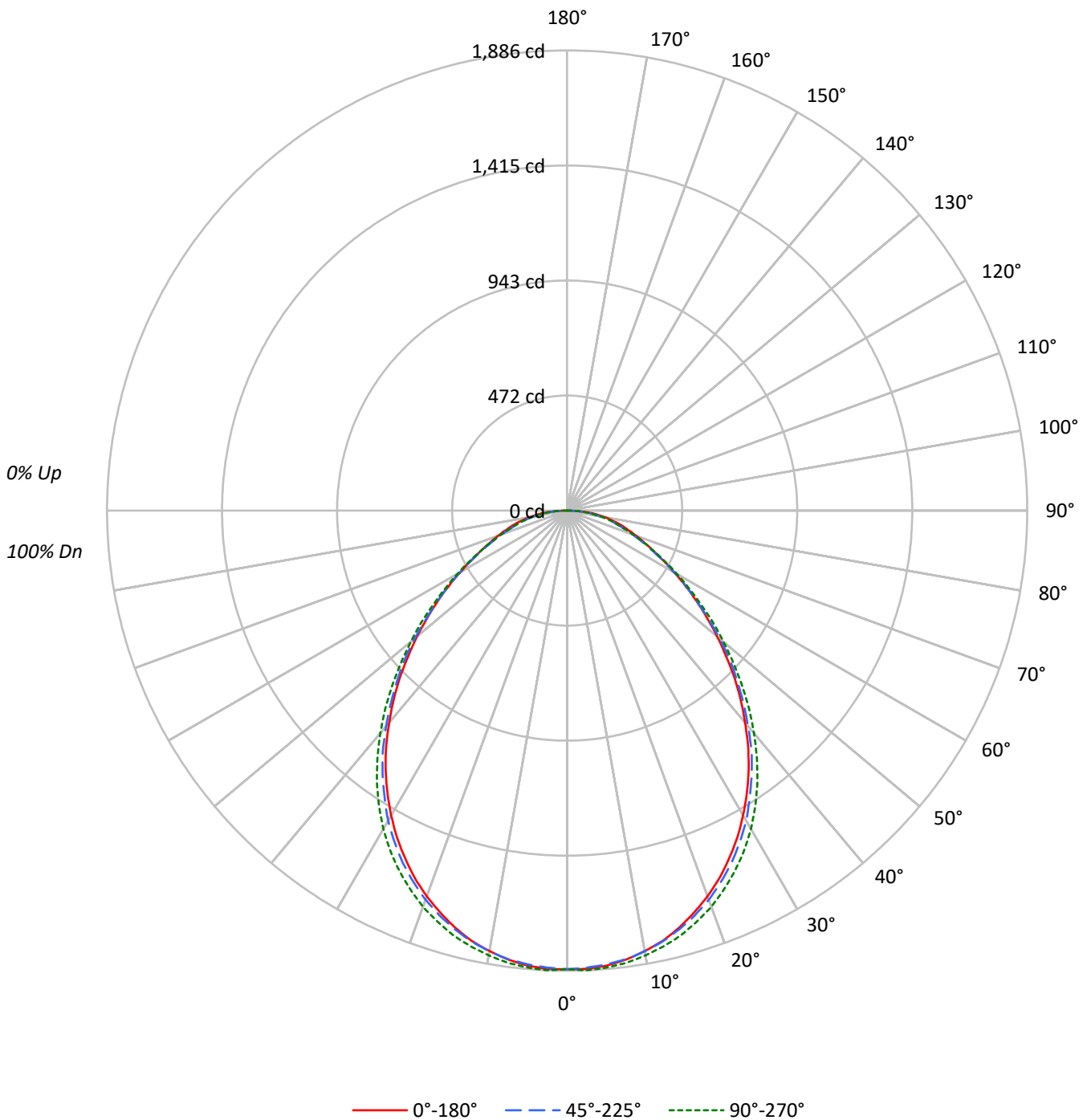
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5059	5059	5059
5°	5056	5043	5078
10°	5009	5012	5058
15°	4932	4949	5021
20°	4817	4860	4948
25°	4667	4732	4835
30°	4483	4560	4680
35°	4263	4331	4465
40°	3986	4052	4185
45°	3690	3747	3857
50°	3361	3415	3502
55°	3035	3044	3133
60°	2722	2732	2796
65°	2480	2429	2486
70°	2361	2228	2267
75°	2376	2149	2159
80°	2464	2171	2156
85°	2699	2300	2177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	4.1
10°-20°	501.7	11.7
20°-30°	734.3	17.1
30°-40°	825.6	19.3
40°-50°	761.4	17.8
50°-60°	586.8	13.7
60°-70°	387.2	9.0
70°-80°	225.4	5.3
80°-90°	82.1	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°	1413.6	33.0
0°-40°	2239.2	52.3
0°-60°	3587.3	83.8
0°-90°	4282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1872	1868	1867	1876	1880	177
15°	1770	1770	1776	1792	1802	498
25°	1572	1580	1594	1616	1628	723
35°	1298	1304	1318	1345	1359	809
45°	970	971	985	1004	1013	747
55°	647	646	649	660	668	580
65°	390	388	382	384	390	391
75°	228	219	207	203	208	241
85°	87	86	74	69	70	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1879.8	1879.8	1879.8	1879.8	1879.8
2.5°	1879.8	1875.8	1874.8	1881.8	1885.8
5°	1871.9	1867.9	1866.9	1875.8	1879.8
7.5°	1856.0	1853.0	1854.0	1863.9	1868.9
10°	1833.1	1832.1	1834.1	1845.0	1851.0
12.5°	1806.3	1805.3	1809.3	1821.2	1829.1
15°	1770.5	1770.5	1776.5	1792.4	1802.3
17.5°	1727.8	1730.8	1739.7	1755.6	1766.5
20°	1682.1	1685.1	1697.0	1714.9	1727.8
22.5°	1631.4	1635.4	1647.3	1669.2	1680.1
25°	1571.8	1579.8	1593.7	1615.5	1628.4
27.5°	1510.2	1519.2	1532.1	1558.9	1570.8
30°	1442.6	1448.6	1467.5	1492.3	1506.2
32.5°	1371.1	1377.1	1393.0	1422.8	1434.7
35°	1297.6	1303.6	1318.5	1345.3	1359.2
37.5°	1218.1	1223.1	1241.0	1261.8	1276.7
40°	1134.6	1141.6	1153.5	1178.4	1191.3
42.5°	1053.2	1056.2	1069.1	1093.9	1103.8
45°	969.7	970.7	984.6	1004.5	1013.4
47.5°	883.3	885.3	902.2	914.1	923.0
50°	802.8	803.8	815.7	826.6	836.6
52.5°	722.3	722.3	728.3	740.2	753.1
55°	646.8	645.8	648.8	659.7	667.7
57.5°	575.3	574.3	578.3	585.2	591.2
60°	505.7	503.7	507.7	511.7	519.6
62.5°	444.1	446.1	441.1	447.1	453.1
65°	389.5	387.5	381.5	384.5	390.5
67.5°	342.8	339.8	329.9	331.8	338.8
70°	300.1	294.1	283.2	283.2	288.1
72.5°	261.3	255.3	241.4	242.4	244.4
75°	228.5	218.6	206.7	202.7	207.7
77.5°	192.8	184.8	173.9	170.9	172.9
80°	159.0	153.0	140.1	136.1	139.1
82.5°	126.2	121.2	106.3	103.3	104.3
85°	87.4	86.4	74.5	68.6	70.5
87.5°	46.7	47.7	38.7	34.8	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)