

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: P291999

Luminaire Tested: **22GR-LD5-32-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291999
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-LD5-32-F125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3369.0 lumens
Efficiency: N/A
Efficacy: 131.3 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

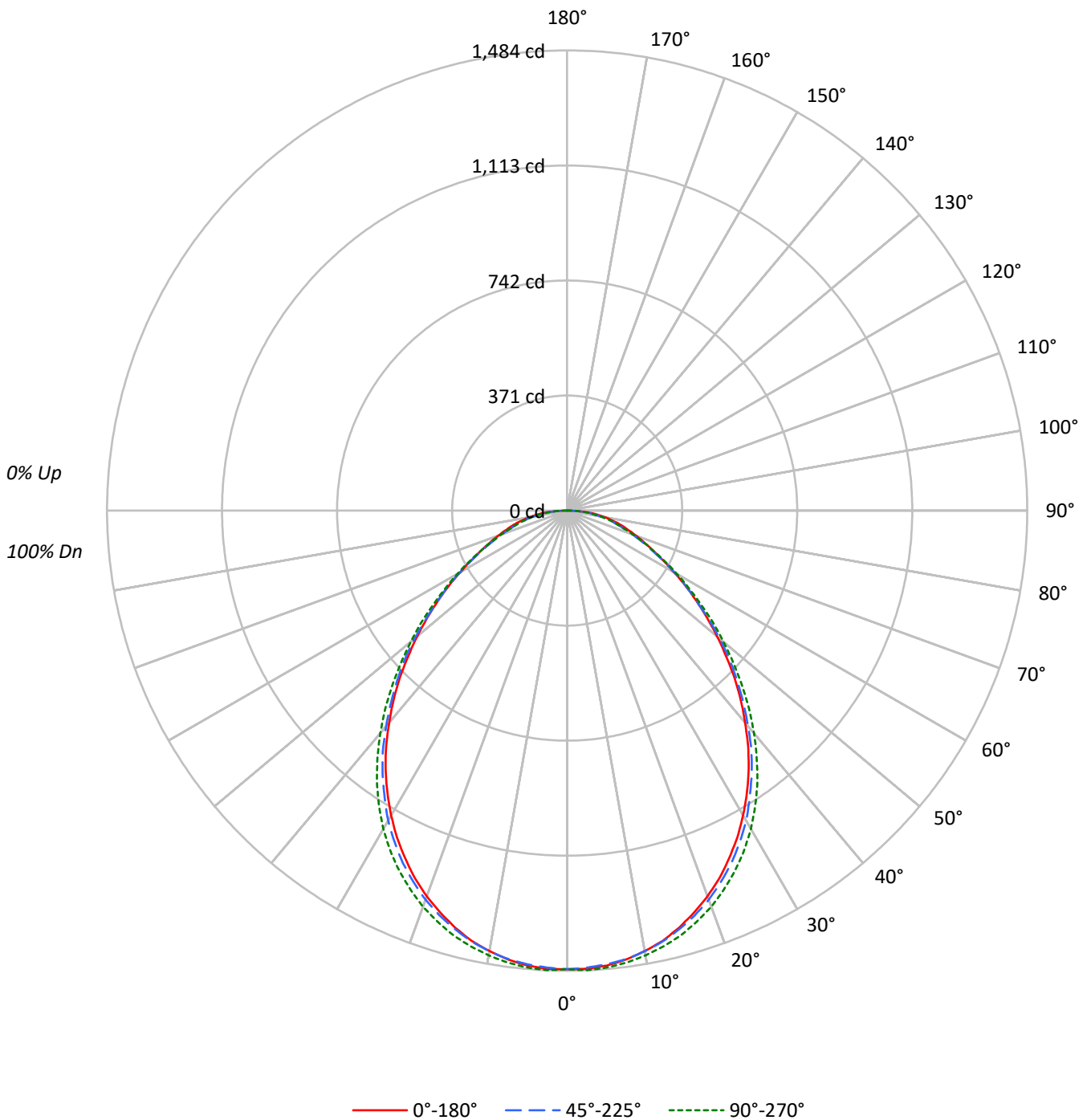
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3980	3980	3980
5°	3978	3968	3995
10°	3941	3943	3979
15°	3881	3894	3950
20°	3790	3824	3893
25°	3672	3723	3804
30°	3527	3588	3682
35°	3354	3408	3513
40°	3136	3188	3293
45°	2904	2948	3034
50°	2644	2687	2756
55°	2388	2395	2464
60°	2141	2150	2200
65°	1951	1911	1956
70°	1858	1753	1784
75°	1869	1691	1699
80°	1939	1708	1695
85°	2124	1809	1714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	4.1
10°-20°	394.7	11.7
20°-30°	577.7	17.1
30°-40°	649.6	19.3
40°-50°	599.0	17.8
50°-60°	461.7	13.7
60°-70°	304.7	9.0
70°-80°	177.3	5.3
80°-90°	64.6	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°	1112.2	33.0
0°-40°	1761.7	52.3
0°-60°	2822.4	83.8
0°-90°	3369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1473	1470	1469	1476	1479	140
15°	1393	1393	1398	1410	1418	392
25°	1237	1243	1254	1271	1281	569
35°	1021	1026	1037	1058	1069	637
45°	763	764	775	790	797	587
55°	509	508	510	519	525	457
65°	306	305	300	302	307	307
75°	180	172	163	160	163	189
85°	69	68	59	54	56	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1479.0	1479.0	1479.0	1479.0	1479.0
2.5°	1479.0	1475.9	1475.1	1480.6	1483.7
5°	1472.8	1469.6	1468.8	1475.9	1479.0
7.5°	1460.2	1457.9	1458.7	1466.5	1470.4
10°	1442.3	1441.5	1443.0	1451.6	1456.3
12.5°	1421.2	1420.4	1423.5	1432.9	1439.1
15°	1393.0	1393.0	1397.7	1410.2	1418.0
17.5°	1359.4	1361.7	1368.8	1381.3	1389.9
20°	1323.4	1325.8	1335.2	1349.2	1359.4
22.5°	1283.6	1286.7	1296.1	1313.3	1321.9
25°	1236.7	1242.9	1253.9	1271.1	1281.2
27.5°	1188.2	1195.2	1205.4	1226.5	1235.9
30°	1135.1	1139.7	1154.6	1174.1	1185.1
32.5°	1078.8	1083.5	1096.0	1119.4	1128.8
35°	1020.9	1025.6	1037.3	1058.4	1069.4
37.5°	958.4	962.3	976.4	992.8	1004.5
40°	892.7	898.2	907.6	927.1	937.3
42.5°	828.6	831.0	841.1	860.7	868.5
45°	763.0	763.7	774.7	790.3	797.3
47.5°	694.9	696.5	709.8	719.2	726.2
50°	631.6	632.4	641.8	650.4	658.2
52.5°	568.3	568.3	573.0	582.4	592.5
55°	508.9	508.1	510.5	519.1	525.3
57.5°	452.6	451.8	455.0	460.4	465.1
60°	397.9	396.3	399.5	402.6	408.8
62.5°	349.4	351.0	347.1	351.8	356.5
65°	306.4	304.9	300.2	302.5	307.2
67.5°	269.7	267.3	259.5	261.1	266.6
70°	236.1	231.4	222.8	222.8	226.7
72.5°	205.6	200.9	190.0	190.7	192.3
75°	179.8	172.0	162.6	159.5	163.4
77.5°	151.7	145.4	136.8	134.5	136.0
80°	125.1	120.4	110.2	107.1	109.4
82.5°	99.3	95.4	83.6	81.3	82.1
85°	68.8	68.0	58.6	53.9	55.5
87.5°	36.7	37.5	30.5	27.4	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)