

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: P292107

Luminaire Tested: **22GR-LD5-40-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292107
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-L92765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3196.0 lumens
Efficiency: N/A
Efficacy: 99.0 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

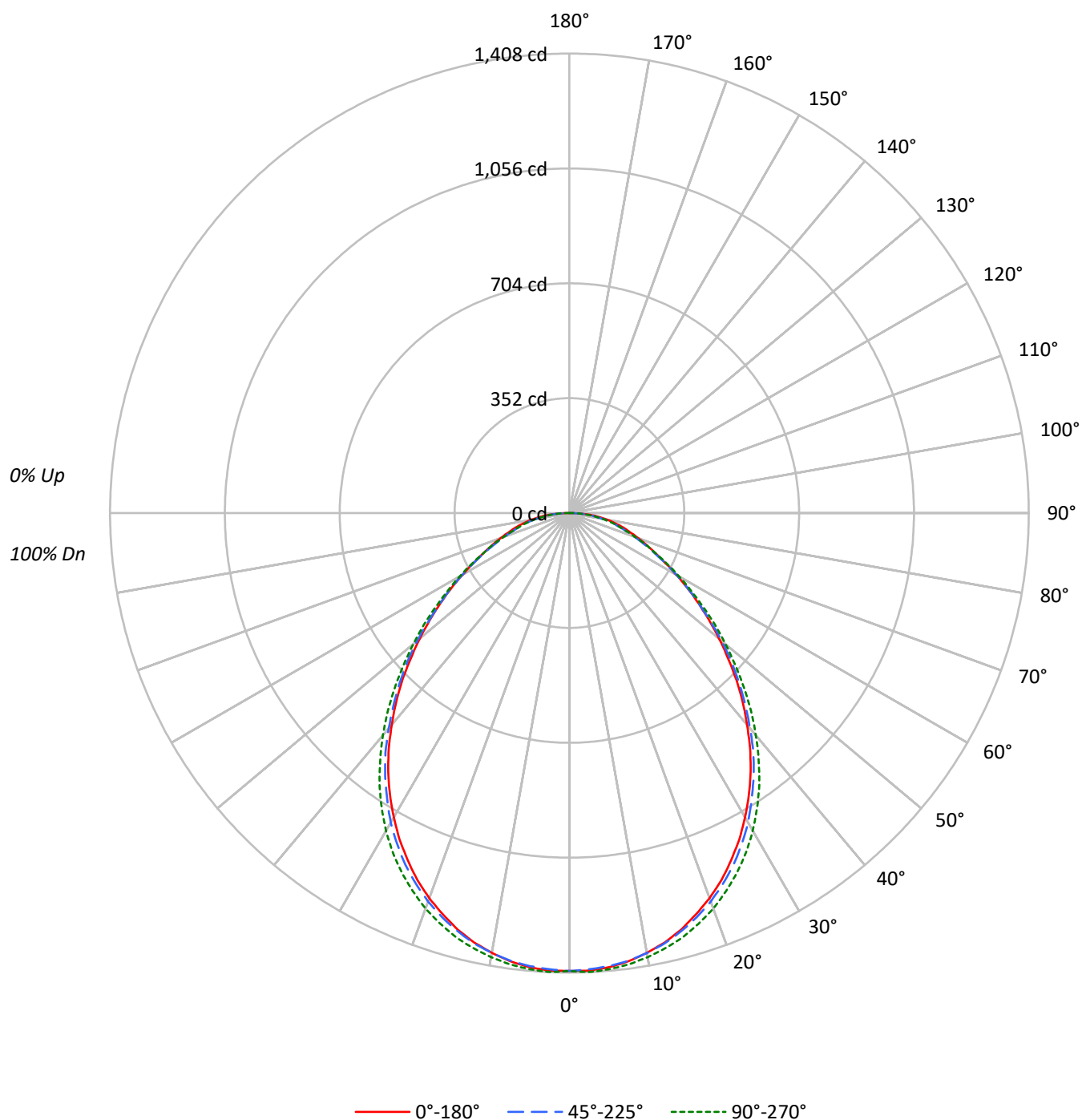
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3776	3776	3776
5°	3774	3764	3790
10°	3739	3741	3775
15°	3682	3694	3748
20°	3595	3627	3693
25°	3483	3532	3609
30°	3346	3403	3493
35°	3182	3233	3333
40°	2975	3025	3123
45°	2755	2797	2879
50°	2509	2549	2614
55°	2265	2272	2338
60°	2032	2039	2087
65°	1851	1813	1855
70°	1762	1662	1692
75°	1774	1603	1612
80°	1839	1621	1609
85°	2016	1717	1627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	4.1
10°-20°	374.4	11.7
20°-30°	548.1	17.1
30°-40°	616.2	19.3
40°-50°	568.3	17.8
50°-60°	438.0	13.7
60°-70°	289.0	9.0
70°-80°	168.2	5.3
80°-90°	61.3	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°	1055.1	33.0
0°-40°	1671.3	52.3
0°-60°	2677.5	83.8
0°-90°	3196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3196.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1397	1394	1393	1400	1403	132
15°	1322	1322	1326	1338	1345	372
25°	1173	1179	1190	1206	1215	540
35°	968	973	984	1004	1014	604
45°	724	724	735	750	756	557
55°	483	482	484	492	498	433
65°	291	289	285	287	291	292
75°	171	163	154	151	155	180
85°	65	64	56	51	53	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.1	1403.1	1403.1	1403.1	1403.1
2.5°	1403.1	1400.1	1399.3	1404.5	1407.5
5°	1397.1	1394.2	1393.4	1400.1	1403.1
7.5°	1385.3	1383.0	1383.8	1391.2	1394.9
10°	1368.2	1367.5	1368.9	1377.1	1381.6
12.5°	1348.2	1347.4	1350.4	1359.3	1365.2
15°	1321.5	1321.5	1325.9	1337.8	1345.2
17.5°	1289.6	1291.8	1298.5	1310.4	1318.5
20°	1255.5	1257.7	1266.6	1280.0	1289.6
22.5°	1217.7	1220.6	1229.5	1245.8	1254.0
25°	1173.2	1179.1	1189.5	1205.8	1215.4
27.5°	1127.2	1133.9	1143.5	1163.5	1172.4
30°	1076.8	1081.2	1095.3	1113.8	1124.2
32.5°	1023.4	1027.8	1039.7	1061.9	1070.8
35°	968.5	972.9	984.1	1004.1	1014.5
37.5°	909.2	912.9	926.2	941.8	952.9
40°	846.9	852.1	861.0	879.5	889.1
42.5°	786.1	788.3	797.9	816.5	823.9
45°	723.8	724.5	734.9	749.7	756.4
47.5°	659.3	660.7	673.3	682.2	688.9
50°	599.2	599.9	608.8	617.0	624.4
52.5°	539.1	539.1	543.6	552.5	562.1
55°	482.8	482.0	484.2	492.4	498.3
57.5°	429.4	428.6	431.6	436.8	441.2
60°	377.5	376.0	378.9	381.9	387.8
62.5°	331.5	333.0	329.3	333.7	338.2
65°	290.7	289.2	284.8	287.0	291.4
67.5°	255.8	253.6	246.2	247.7	252.9
70°	224.0	219.5	211.3	211.3	215.1
72.5°	195.0	190.6	180.2	180.9	182.4
75°	170.6	163.1	154.2	151.3	155.0
77.5°	143.9	137.9	129.8	127.6	129.0
80°	118.7	114.2	104.6	101.6	103.8
82.5°	94.2	90.5	79.3	77.1	77.9
85°	65.3	64.5	55.6	51.2	52.7
87.5°	34.9	35.6	28.9	26.0	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)