

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: P292390

Luminaire Tested: **22GR-LD5-32-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-A125-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3344.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

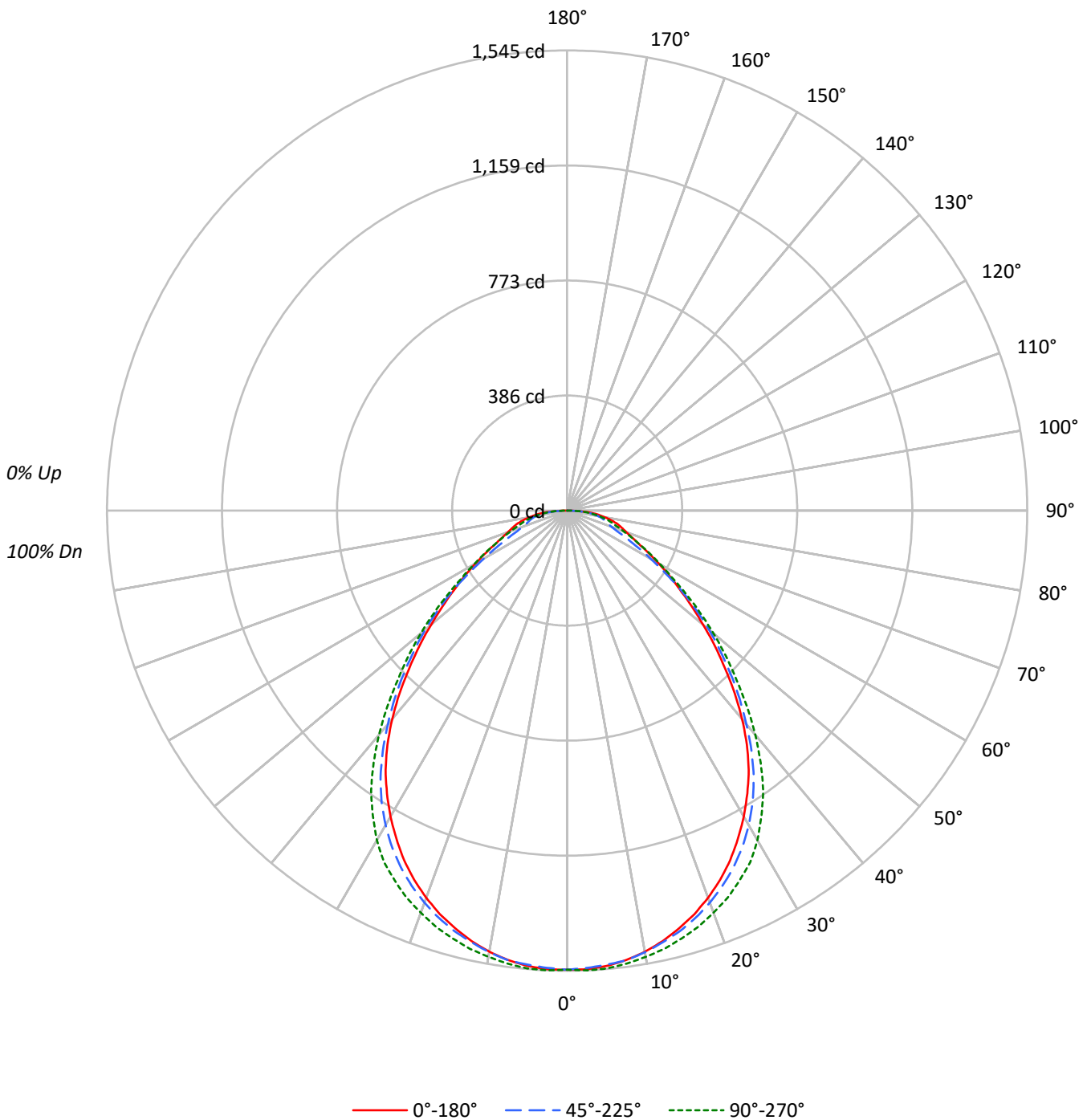
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4148	4148	4148
5°	4145	4134	4168
10°	4110	4114	4156
15°	4045	4073	4142
20°	3961	4012	4115
25°	3845	3924	4067
30°	3685	3789	3971
35°	3491	3588	3770
40°	3210	3289	3454
45°	2852	2955	3062
50°	2491	2605	2683
55°	2166	2195	2275
60°	1905	1745	1943
65°	1693	1395	1703
70°	1662	1239	1570
75°	1815	1362	1605
80°	1993	1619	1715
85°	2384	1877	1927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	4.4
10°-20°	413.1	12.4
20°-30°	609.9	18.2
30°-40°	682.5	20.4
40°-50°	599.3	17.9
50°-60°	424.1	12.7
60°-70°	246.8	7.4
70°-80°	153.8	4.6
80°-90°	68.8	2.1
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°	1168.7	34.9
0°-40°	1851.1	55.4
0°-60°	2874.5	86.0
0°-90°	3344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1541	1541	1541	1541	1541	
5°	1534	1530	1530	1538	1543	145
15°	1452	1455	1462	1478	1487	409
25°	1295	1300	1322	1353	1370	595
35°	1063	1067	1092	1125	1148	661
45°	749	758	777	795	805	580
55°	462	471	468	476	485	417
65°	266	245	219	239	267	270
75°	175	150	131	134	154	182
85°	77	80	61	59	62	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1541.4	1541.4	1541.4	1541.4	1541.4
2.5°	1541.4	1538.3	1536.7	1542.2	1545.3
5°	1534.4	1530.5	1530.5	1538.3	1543.0
7.5°	1521.9	1518.0	1522.7	1529.7	1534.4
10°	1504.0	1502.4	1505.6	1514.9	1521.1
12.5°	1480.6	1481.4	1484.5	1499.3	1507.1
15°	1451.8	1454.9	1461.9	1477.5	1486.8
17.5°	1420.6	1422.9	1433.8	1451.8	1465.0
20°	1383.1	1387.8	1401.1	1423.7	1436.9
22.5°	1341.8	1347.3	1363.7	1390.9	1407.3
25°	1295.0	1300.5	1321.5	1352.7	1369.9
27.5°	1242.0	1250.6	1274.0	1308.3	1331.7
30°	1185.9	1192.9	1219.4	1258.4	1277.9
32.5°	1125.9	1134.4	1159.4	1196.8	1214.0
35°	1062.7	1067.4	1092.3	1125.1	1147.7
37.5°	991.0	993.3	1016.7	1047.1	1067.4
40°	913.8	915.3	936.4	965.2	983.2
42.5°	833.5	834.3	856.9	878.7	894.3
45°	749.3	757.8	776.6	795.3	804.6
47.5°	673.6	679.9	697.0	713.4	722.0
50°	594.9	610.5	622.2	630.8	640.9
52.5°	527.1	540.3	543.4	553.6	562.1
55°	461.6	470.9	467.8	476.4	485.0
57.5°	406.2	401.5	391.4	406.2	417.1
60°	354.0	341.5	324.3	344.6	361.0
62.5°	307.2	286.9	265.9	286.1	313.4
65°	265.9	244.8	219.1	238.6	267.4
67.5°	234.7	212.9	182.4	201.9	230.8
70°	211.3	188.7	157.5	173.9	199.6
72.5°	192.6	168.4	141.1	152.0	173.9
75°	174.6	150.5	131.0	134.1	154.4
77.5°	153.6	135.7	120.1	118.5	134.1
80°	128.6	123.2	104.5	102.1	110.7
82.5°	106.0	103.7	85.8	83.4	86.5
85°	77.2	80.3	60.8	59.3	62.4
87.5°	40.5	44.4	32.0	33.5	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)