

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: P292391

Luminaire Tested: **22GR-LD5-32-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292391
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3352.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

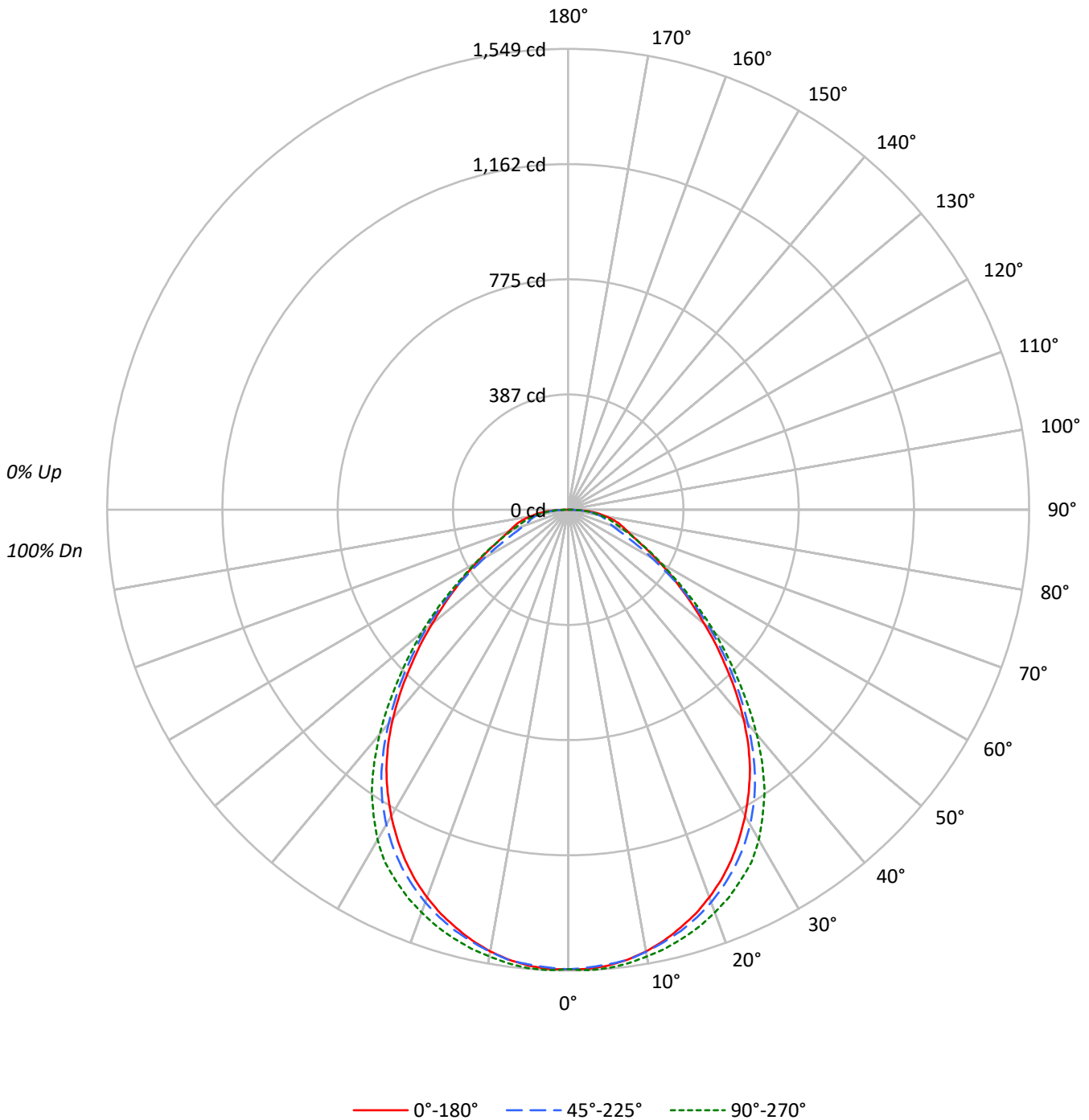
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4158	4158	4158
5°	4155	4144	4178
10°	4120	4124	4167
15°	4054	4082	4152
20°	3970	4022	4125
25°	3854	3933	4077
30°	3694	3798	3980
35°	3499	3597	3779
40°	3218	3297	3462
45°	2858	2962	3069
50°	2496	2611	2689
55°	2171	2200	2281
60°	1910	1750	1948
65°	1697	1398	1707
70°	1666	1242	1574
75°	1821	1365	1608
80°	1999	1623	1720
85°	2390	1883	1930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	4.4
10°-20°	414.1	12.4
20°-30°	611.3	18.2
30°-40°	684.1	20.4
40°-50°	600.7	17.9
50°-60°	425.1	12.7
60°-70°	247.4	7.4
70°-80°	154.2	4.6
80°-90°	69.0	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°	1171.5	34.9
0°-40°	1855.6	55.4
0°-60°	2881.4	86.0
0°-90°	3352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3352.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1538	1534	1534	1542	1547	146
15°	1455	1458	1465	1481	1490	410
25°	1298	1304	1325	1356	1373	596
35°	1065	1070	1095	1128	1150	662
45°	751	760	778	797	806	581
55°	463	472	469	478	486	418
65°	266	245	220	239	268	270
75°	175	151	131	134	155	183
85°	77	80	61	59	62	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1545.1	1545.1	1545.1	1545.1	1545.1
2.5°	1545.1	1542.0	1540.4	1545.9	1549.0
5°	1538.1	1534.2	1534.2	1542.0	1546.7
7.5°	1525.6	1521.7	1526.3	1533.4	1538.1
10°	1507.6	1506.0	1509.2	1518.5	1524.8
12.5°	1484.1	1484.9	1488.1	1502.9	1510.7
15°	1455.2	1458.4	1465.4	1481.0	1490.4
17.5°	1424.0	1426.3	1437.3	1455.2	1468.5
20°	1386.5	1391.1	1404.4	1427.1	1440.4
22.5°	1345.0	1350.5	1366.9	1394.3	1410.7
25°	1298.1	1303.6	1324.7	1356.0	1373.2
27.5°	1245.0	1253.6	1277.0	1311.4	1334.9
30°	1188.7	1195.8	1222.3	1261.4	1280.9
32.5°	1128.5	1137.1	1162.2	1199.7	1216.9
35°	1065.2	1069.9	1094.9	1127.8	1150.4
37.5°	993.3	995.7	1019.1	1049.6	1069.9
40°	916.0	917.5	938.6	967.5	985.5
42.5°	835.5	836.2	858.9	880.8	896.4
45°	751.1	759.7	778.4	797.2	806.5
47.5°	675.3	681.5	698.7	715.1	723.7
50°	596.3	611.9	623.7	632.3	642.4
52.5°	528.3	541.6	544.7	554.9	563.5
55°	462.7	472.1	468.9	477.5	486.1
57.5°	407.2	402.5	392.3	407.2	418.1
60°	354.8	342.3	325.1	345.4	361.9
62.5°	307.9	287.6	266.5	286.8	314.2
65°	266.5	245.4	219.6	239.2	268.1
67.5°	235.2	213.4	182.9	202.4	231.3
70°	211.8	189.1	157.9	174.3	200.1
72.5°	193.0	168.8	141.5	152.4	174.3
75°	175.1	150.8	131.3	134.4	154.7
77.5°	154.0	136.0	120.4	118.8	134.4
80°	129.0	123.5	104.7	102.4	111.0
82.5°	106.3	103.9	86.0	83.6	86.8
85°	77.4	80.5	61.0	59.4	62.5
87.5°	40.6	44.5	32.0	33.6	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)