

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: P292684

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-A19/156-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2992.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

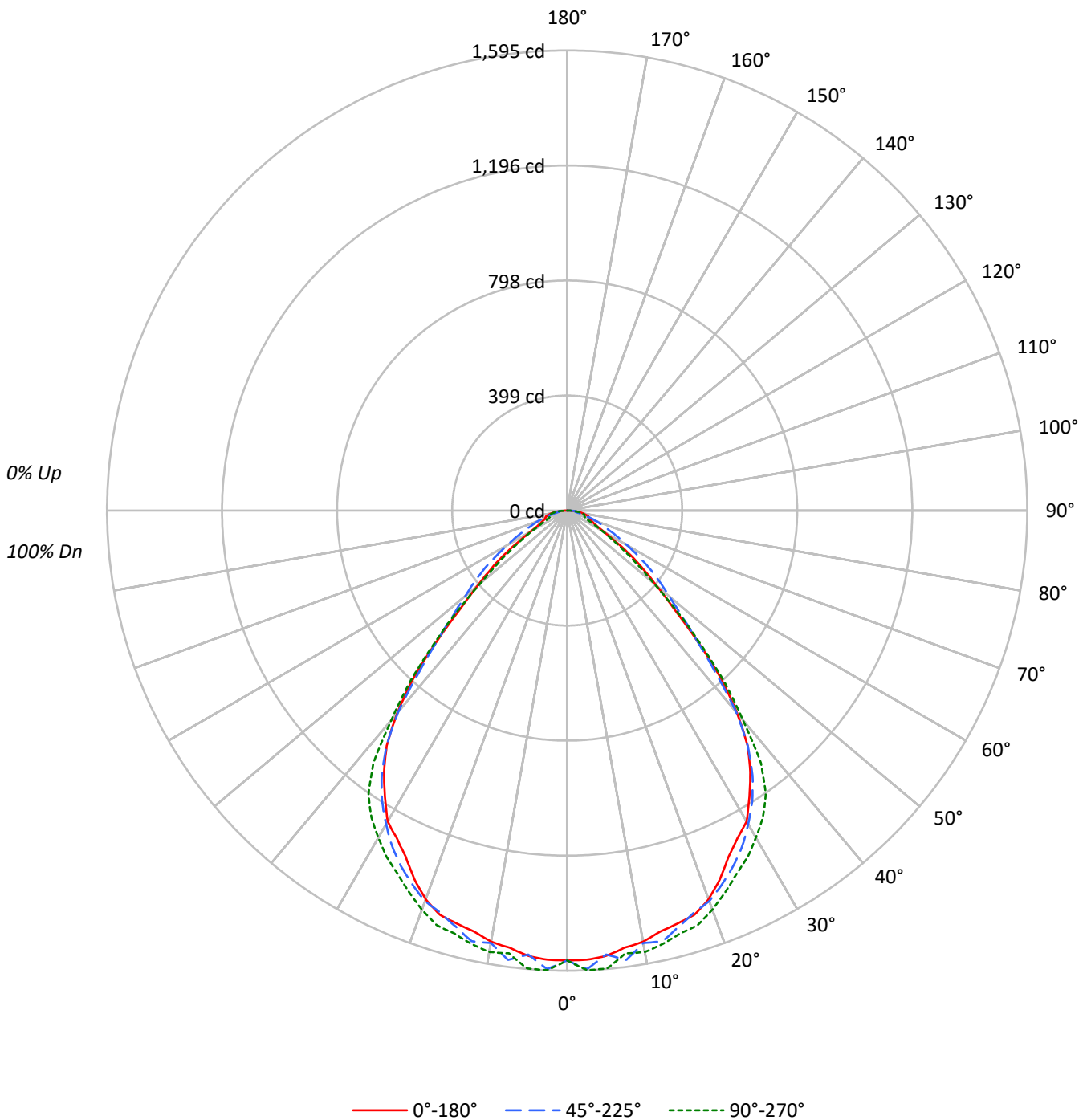
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96		97	95	93		93	91	90	88
2	103	96	90	85	100	94	89	85	91	86	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	79	73	82	77	72		79	75	71		77	73	70	68
4	88	78	71	65	86	77	70	64	75	68	64		72	67	63		70	66	62	60
5	82	71	63	58	80	70	63	57	68	62	57		66	61	56		64	59	56	54
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4196	4196	4196
5°	4186	4172	4304
10°	4147	4159	4245
15°	4128	4160	4226
20°	4106	4126	4215
25°	3931	4042	4126
30°	3866	3901	4068
35°	3636	3682	3944
40°	3222	3199	3326
45°	2406	2412	2479
50°	1694	1927	1641
55°	1250	1627	1121
60°	781	1286	732
65°	637	1019	512
70°	633	849	505
75°	784	623	652
80°	874	491	798
85°	871	914	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	5.0
10°-20°	422.8	14.1
20°-30°	626.2	20.9
30°-40°	701.4	23.4
40°-50°	515.4	17.2
50°-60°	288.1	9.6
60°-70°	160.6	5.4
70°-80°	94.3	3.2
80°-90°	34.7	1.2
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°	1197.5	40.0
0°-40°	1898.9	63.5
0°-60°	2702.4	90.3
0°-90°	2992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1550	1578	1544	1576	1593	147
15°	1482	1491	1493	1516	1517	419
25°	1324	1334	1361	1380	1390	614
35°	1107	1108	1121	1172	1200	686
45°	632	684	634	679	651	494
55°	266	324	347	346	239	238
65°	100	178	160	205	80	104
75°	75	106	60	120	63	76
85°	28	42	30	38	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1559.3	1559.3	1559.3	1559.3	1559.3
2.5°	1558.6	1572.7	1591.1	1593.2	1594.6
5°	1549.5	1578.4	1544.5	1576.3	1593.2
7.5°	1528.3	1546.0	1570.6	1538.9	1548.1
10°	1517.8	1522.0	1522.0	1561.5	1553.7
12.5°	1493.8	1522.0	1529.0	1521.3	1538.2
15°	1481.8	1491.0	1493.1	1515.6	1517.1
17.5°	1468.4	1466.3	1461.4	1477.6	1506.5
20°	1433.9	1426.1	1440.9	1460.7	1471.9
22.5°	1383.1	1385.2	1402.8	1419.1	1431.8
25°	1323.9	1334.5	1361.3	1380.3	1389.5
27.5°	1279.5	1295.0	1313.3	1335.9	1354.2
30°	1244.2	1242.8	1255.5	1287.9	1309.1
32.5°	1175.9	1180.8	1194.2	1233.0	1262.6
35°	1106.8	1107.5	1120.9	1171.6	1200.5
37.5°	1027.1	1021.5	1029.2	1084.2	1103.2
40°	917.1	918.5	910.8	949.6	946.7
42.5°	788.8	800.1	759.9	810.7	807.2
45°	632.3	683.8	633.7	678.9	651.4
47.5°	499.1	575.2	533.6	566.8	515.3
50°	404.6	482.9	460.3	475.1	392.0
52.5°	332.0	395.5	402.5	406.1	305.9
55°	266.5	324.3	346.8	346.1	239.0
57.5°	196.7	263.7	289.7	300.3	181.2
60°	145.2	219.2	239.0	262.2	136.1
62.5°	117.0	192.5	197.4	229.8	103.6
65°	100.1	177.6	160.0	205.1	80.4
67.5°	88.8	165.7	130.4	183.3	68.4
70°	80.4	147.3	107.9	164.3	64.2
72.5°	78.2	125.5	83.2	146.6	63.4
75°	75.4	106.4	59.9	120.5	62.7
77.5°	64.9	90.9	43.0	93.1	58.5
80°	56.4	72.6	31.7	69.8	51.5
82.5°	43.7	55.0	28.2	52.9	41.6
85°	28.2	41.6	29.6	38.1	28.9
87.5°	13.4	23.3	21.1	20.4	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)