

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: P292577

Luminaire Tested: **22GR-LD5-28-A19/156-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292577
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-LD5-28-A19/156-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2996.0 lumens
Efficiency: N/A
Efficacy: 132.0 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

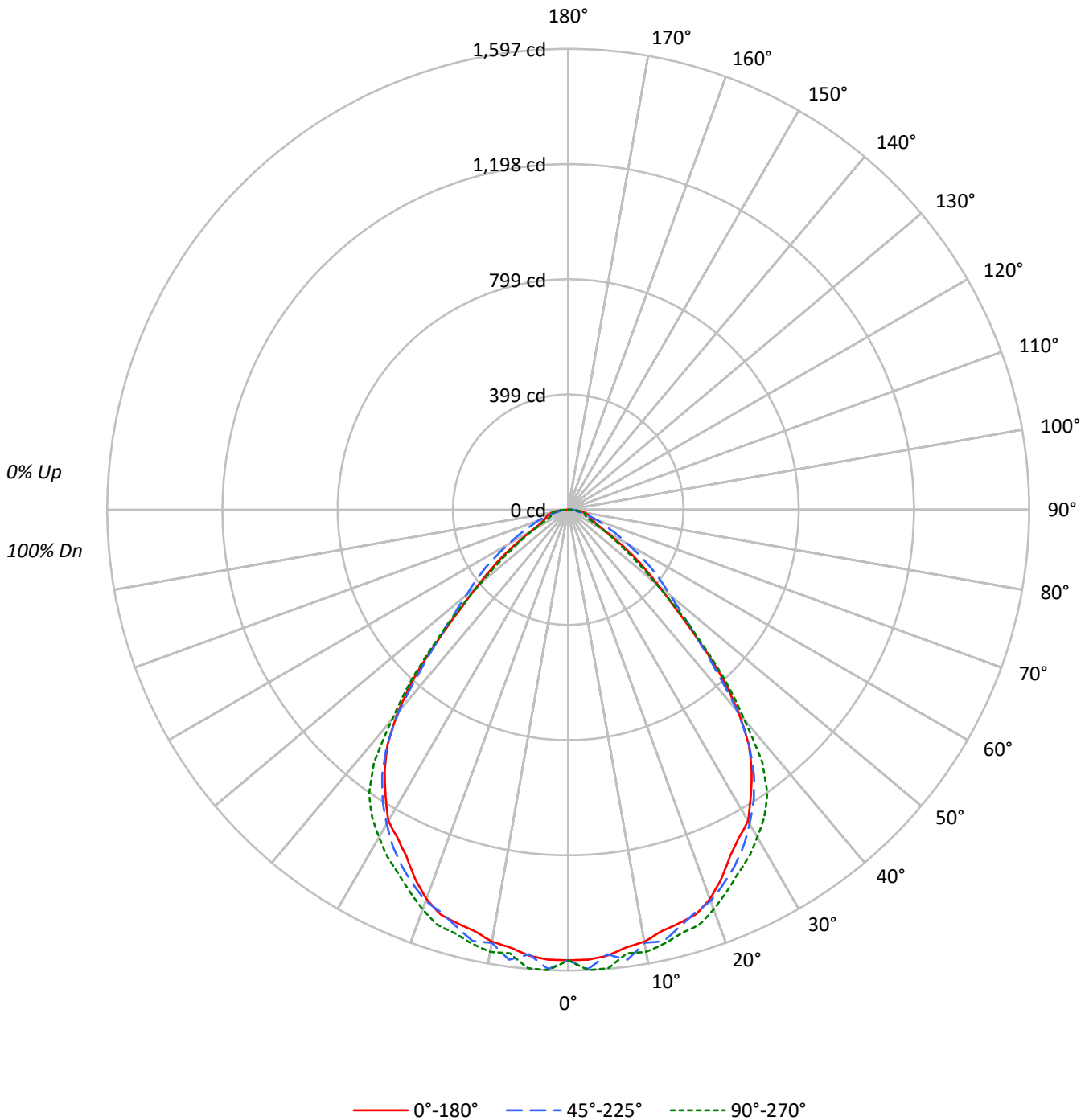
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4202	4202	4202
5°	4191	4178	4309
10°	4153	4164	4251
15°	4134	4165	4232
20°	4112	4132	4221
25°	3936	4047	4131
30°	3871	3906	4073
35°	3641	3687	3949
40°	3226	3204	3330
45°	2410	2415	2482
50°	1696	1930	1643
55°	1252	1629	1123
60°	783	1288	733
65°	638	1020	513
70°	633	850	505
75°	785	624	653
80°	876	493	798
85°	871	914	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	5.0
10°-20°	423.4	14.1
20°-30°	627.1	20.9
30°-40°	702.4	23.4
40°-50°	516.1	17.2
50°-60°	288.5	9.6
60°-70°	160.8	5.4
70°-80°	94.5	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°	1199.1	40.0
0°-40°	1901.5	63.5
0°-60°	2706.0	90.3
0°-90°	2996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1561	1561	1561	1561	1561	
5°	1552	1580	1547	1578	1595	147
15°	1484	1493	1495	1518	1519	419
25°	1326	1336	1363	1382	1391	614
35°	1108	1109	1122	1173	1202	687
45°	633	685	635	680	652	495
55°	267	325	347	347	239	238
65°	100	178	160	205	80	104
75°	76	107	60	121	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°	1561.4	1561.4	1561.4	1561.4	1561.4
2.5°	1560.7	1574.8	1593.2	1595.3	1596.7
5°	1551.5	1580.5	1546.6	1578.4	1595.3
7.5°	1530.4	1548.0	1572.7	1541.0	1550.1
10°	1519.8	1524.0	1524.0	1563.5	1555.8
12.5°	1495.8	1524.0	1531.1	1523.3	1540.3
15°	1483.8	1493.0	1495.1	1517.7	1519.1
17.5°	1470.4	1468.3	1463.3	1479.5	1508.5
20°	1435.8	1428.0	1442.8	1462.6	1473.9
22.5°	1385.0	1387.1	1404.7	1421.0	1433.7
25°	1325.7	1336.3	1363.1	1382.1	1391.3
27.5°	1281.2	1296.7	1315.1	1337.7	1356.0
30°	1245.9	1244.5	1257.2	1289.7	1310.8
32.5°	1177.4	1182.4	1195.8	1234.6	1264.3
35°	1108.2	1109.0	1122.4	1173.2	1202.1
37.5°	1028.5	1022.8	1030.6	1085.7	1104.7
40°	918.4	919.8	912.0	950.8	948.0
42.5°	789.9	801.2	761.0	811.8	808.2
45°	633.2	684.7	634.6	679.8	652.2
47.5°	499.8	576.0	534.4	567.5	516.0
50°	405.2	483.5	460.9	475.8	392.5
52.5°	332.5	396.0	403.1	406.6	306.4
55°	266.8	324.7	347.3	346.6	239.3
57.5°	196.9	264.0	290.1	300.7	181.4
60°	145.4	219.5	239.3	262.6	136.2
62.5°	117.2	192.7	197.6	230.1	103.8
65°	100.2	177.9	160.2	205.4	80.5
67.5°	88.9	165.9	130.6	183.5	68.5
70°	80.5	147.5	108.0	164.5	64.2
72.5°	78.4	125.6	83.3	146.8	63.5
75°	75.5	106.6	60.0	120.7	62.8
77.5°	64.9	91.1	43.1	93.2	58.6
80°	56.5	72.7	31.8	69.9	51.5
82.5°	43.8	55.1	28.2	52.9	41.6
85°	28.2	41.6	29.6	38.1	28.9
87.5°	13.4	23.3	21.2	20.5	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)