

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: P292693

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292693
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-LD5-36-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: 3359.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

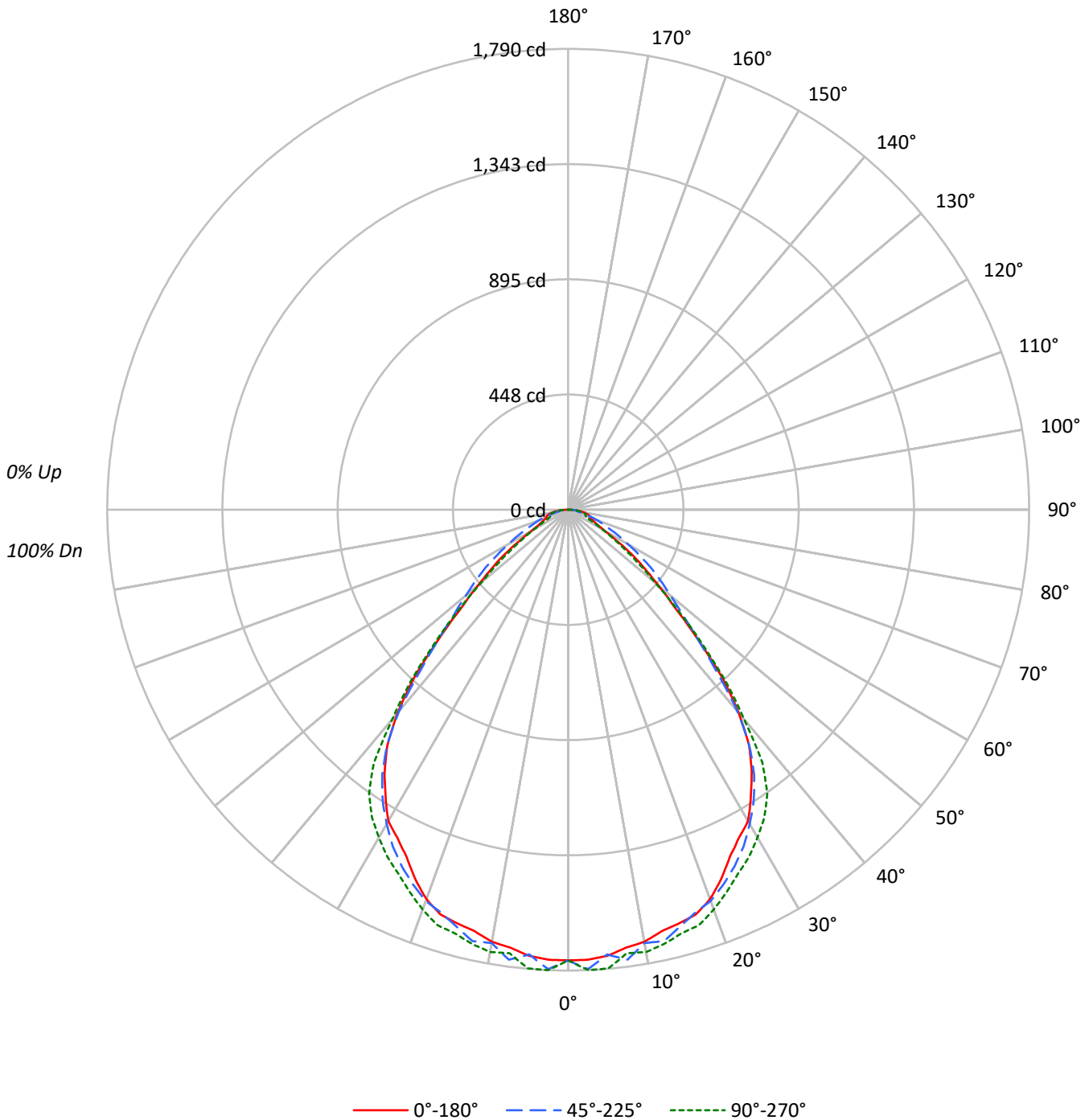
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4711	4711	4711
5°	4699	4684	4831
10°	4656	4669	4766
15°	4635	4670	4745
20°	4610	4633	4732
25°	4413	4537	4632
30°	4341	4380	4567
35°	4082	4134	4428
40°	3617	3592	3734
45°	2702	2708	2783
50°	1902	2164	1842
55°	1404	1827	1259
60°	877	1444	822
65°	716	1144	574
70°	710	953	566
75°	881	700	732
80°	981	552	896
85°	979	1025	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	5.0
10°-20°	474.7	14.1
20°-30°	703.0	20.9
30°-40°	787.5	23.4
40°-50°	578.6	17.2
50°-60°	323.4	9.6
60°-70°	180.3	5.4
70°-80°	105.9	3.2
80°-90°	38.9	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°	1344.3	40.0
0°-40°	2131.8	63.5
0°-60°	3033.9	90.3
0°-90°	3359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3359.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1751	1751	1751	1751	1751	
5°	1740	1772	1734	1770	1789	165
15°	1664	1674	1676	1702	1703	470
25°	1486	1498	1528	1550	1560	689
35°	1242	1243	1258	1315	1348	770
45°	710	768	712	762	731	555
55°	299	364	389	389	268	267
65°	112	199	180	230	90	116
75°	85	120	67	135	70	85
85°	32	47	33	43	32	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1750.6	1750.6	1750.6	1750.6	1750.6
2.5°	1749.8	1765.7	1786.2	1788.6	1790.2
5°	1739.5	1772.0	1734.0	1769.6	1788.6
7.5°	1715.8	1735.6	1763.3	1727.7	1738.0
10°	1703.9	1708.7	1708.7	1753.0	1744.3
12.5°	1677.0	1708.7	1716.6	1707.9	1726.9
15°	1663.6	1673.8	1676.2	1701.5	1703.1
17.5°	1648.5	1646.2	1640.6	1658.8	1691.3
20°	1609.7	1601.0	1617.7	1639.8	1652.5
22.5°	1552.8	1555.1	1574.9	1593.1	1607.4
25°	1486.3	1498.2	1528.2	1549.6	1559.9
27.5°	1436.4	1453.8	1474.4	1499.7	1520.3
30°	1396.9	1395.3	1409.5	1445.9	1469.7
32.5°	1320.1	1325.6	1340.7	1384.2	1417.4
35°	1242.5	1243.3	1258.4	1315.3	1347.8
37.5°	1153.1	1146.8	1155.5	1217.2	1238.6
40°	1029.6	1031.2	1022.5	1066.0	1062.9
42.5°	885.6	898.3	853.1	910.1	906.2
45°	709.9	767.7	711.5	762.1	731.3
47.5°	560.3	645.8	599.1	636.3	578.5
50°	454.3	542.1	516.8	533.4	440.0
52.5°	372.8	444.0	451.9	455.9	343.5
55°	299.2	364.1	389.4	388.6	268.3
57.5°	220.8	296.0	325.3	337.1	203.4
60°	163.0	246.1	268.3	294.4	152.7
62.5°	131.4	216.1	221.6	258.0	116.3
65°	112.4	199.4	179.7	230.3	90.2
67.5°	99.7	186.0	146.4	205.8	76.8
70°	90.2	165.4	121.1	184.4	72.0
72.5°	87.8	140.9	93.4	164.6	71.2
75°	84.7	119.5	67.3	135.3	70.4
77.5°	72.8	102.1	48.3	104.5	65.7
80°	63.3	81.5	35.6	78.4	57.8
82.5°	49.1	61.7	31.7	59.4	46.7
85°	31.7	46.7	33.2	42.7	32.4
87.5°	15.0	26.1	23.7	23.0	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)