

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: P292585

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292585  
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-L82765-W2A1-U-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A19/156 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3300.0 lumens  
Efficiency: N/A  
Efficacy: 130.9 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

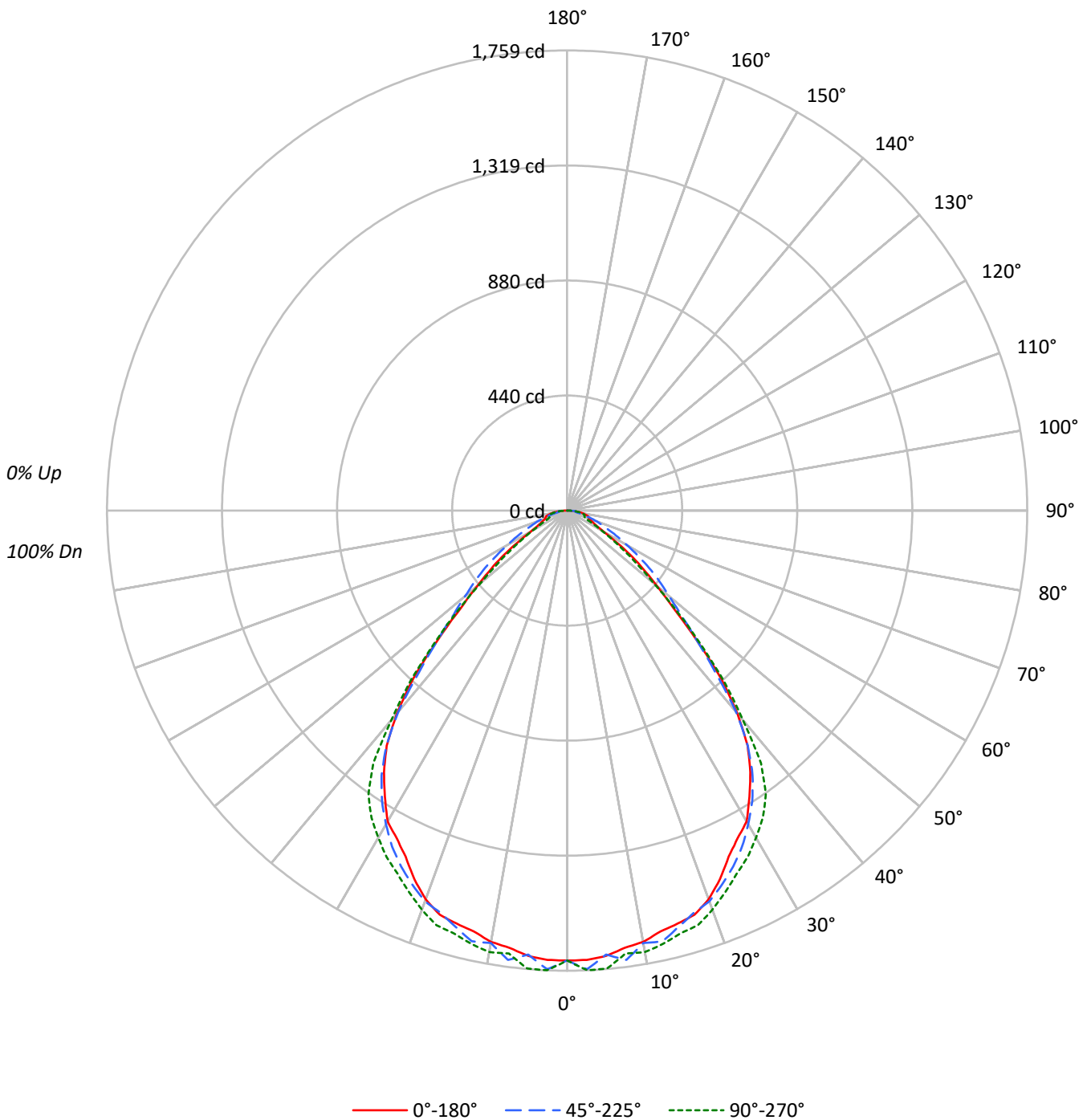
Input Watts (W): 25.203  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4628	4628	4628
5°	4616	4602	4747
10°	4574	4587	4682
15°	4553	4588	4661
20°	4529	4551	4649
25°	4336	4458	4550
30°	4264	4303	4486
35°	4010	4061	4350
40°	3554	3529	3668
45°	2654	2660	2734
50°	1868	2125	1810
55°	1379	1795	1237
60°	862	1419	808
65°	703	1124	564
70°	697	936	557
75°	865	687	719
80°	964	542	880
85°	960	1010	985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.7	5.0
10°-20°	466.3	14.1
20°-30°	690.7	20.9
30°-40°	773.7	23.4
40°-50°	568.5	17.2
50°-60°	317.7	9.6
60°-70°	177.1	5.4
70°-80°	104.0	3.2
80°-90°	38.2	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°	1320.7	40.0
0°-40°	2094.4	63.5
0°-60°	2980.6	90.3
0°-90°	3300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3300.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1720	1720	1720	1720	1720	
5°	1709	1741	1704	1738	1757	162
15°	1634	1644	1647	1672	1673	462
25°	1460	1472	1501	1522	1532	677
35°	1221	1222	1236	1292	1324	756
45°	697	754	699	749	718	545
55°	294	358	382	382	264	262
65°	110	196	176	226	89	114
75°	83	117	66	133	69	84
85°	31	46	33	42	32	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1719.9	1719.9	1719.9	1719.9	1719.9
2.5°	1719.1	1734.6	1754.9	1757.2	1758.7
5°	1709.0	1740.9	1703.5	1738.5	1757.2
7.5°	1685.7	1705.1	1732.3	1697.3	1707.4
10°	1674.0	1678.7	1678.7	1722.2	1713.6
12.5°	1647.6	1678.7	1686.4	1677.9	1696.5
15°	1634.3	1644.4	1646.8	1671.7	1673.2
17.5°	1619.6	1617.2	1611.8	1629.7	1661.6
20°	1581.5	1572.9	1589.2	1611.0	1623.5
22.5°	1525.5	1527.8	1547.3	1565.1	1579.1
25°	1460.2	1471.8	1501.4	1522.4	1532.5
27.5°	1411.2	1428.3	1448.5	1473.4	1493.6
30°	1372.3	1370.8	1384.8	1420.5	1443.8
32.5°	1296.9	1302.3	1317.1	1359.9	1392.5
35°	1220.7	1221.5	1236.3	1292.2	1324.1
37.5°	1132.8	1126.6	1135.2	1195.8	1216.8
40°	1011.6	1013.1	1004.6	1047.3	1044.2
42.5°	870.0	882.5	838.2	894.1	890.3
45°	697.4	754.2	699.0	748.7	718.4
47.5°	550.5	634.5	588.6	625.1	568.4
50°	446.3	532.6	507.7	524.0	432.3
52.5°	366.2	436.2	444.0	447.8	337.4
55°	293.9	357.7	382.5	381.8	263.6
57.5°	216.9	290.8	319.6	331.2	199.8
60°	160.2	241.8	263.6	289.2	150.1
62.5°	129.1	212.3	217.7	253.5	114.3
65°	110.4	195.9	176.5	226.3	88.6
67.5°	98.0	182.7	143.8	202.2	75.4
70°	88.6	162.5	119.0	181.2	70.8
72.5°	86.3	138.4	91.7	161.7	70.0
75°	83.2	117.4	66.1	133.0	69.2
77.5°	71.5	100.3	47.4	102.6	64.5
80°	62.2	80.1	35.0	77.0	56.8
82.5°	48.2	60.6	31.1	58.3	45.9
85°	31.1	45.9	32.7	42.0	31.9
87.5°	14.8	25.7	23.3	22.5	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)