

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: P292315

Luminaire Tested: **22GR-LD5-43-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-43-A-UNV-L92765-W2A1-U-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3834.0 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

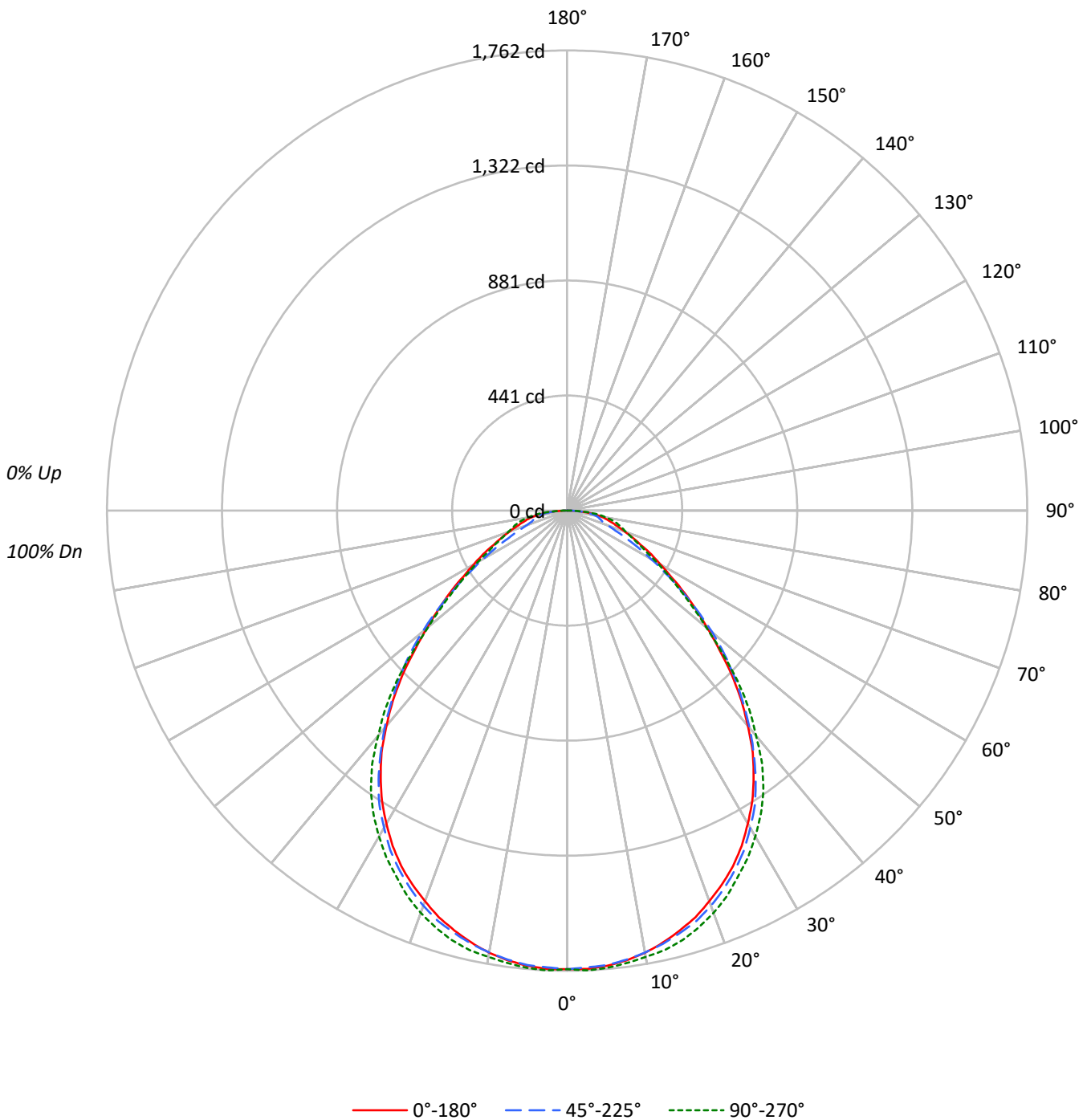
Input Watts (W): 35.526  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4725	4725	4725
5°	4726	4719	4748
10°	4698	4696	4742
15°	4638	4663	4745
20°	4558	4612	4694
25°	4461	4511	4594
30°	4300	4358	4477
35°	4089	4136	4302
40°	3780	3821	3955
45°	3395	3457	3511
50°	2936	3040	2906
55°	2562	2495	2461
60°	2218	1998	2132
65°	1983	1568	1915
70°	1840	1299	1888
75°	1837	1372	2096
80°	2033	1728	2365
85°	2121	1874	2671



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.2	4.3
10°-20°	473.2	12.3
20°-30°	699.9	18.3
30°-40°	789.8	20.6
40°-50°	696.2	18.2
50°-60°	477.6	12.5
60°-70°	281.8	7.4
70°-80°	175.9	4.6
80°-90°	73.3	1.9
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°	1339.3	34.9
0°-40°	2129.1	55.5
0°-60°	3303.0	86.1
0°-90°	3834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3834.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1750	1746	1747	1753	1758	166
15°	1665	1667	1674	1694	1703	469
25°	1502	1508	1519	1539	1547	690
35°	1245	1255	1259	1289	1310	776
45°	892	897	908	914	922	685
55°	546	533	532	514	525	490
65°	311	274	246	285	301	314
75°	177	159	132	185	202	189
85°	69	64	61	79	86	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1756.7	1752.3	1750.5	1757.6	1762.1
5°	1749.6	1746.0	1746.9	1753.2	1757.6
7.5°	1737.1	1734.4	1734.4	1743.3	1747.8
10°	1719.3	1718.4	1718.4	1729.1	1735.3
12.5°	1694.3	1695.2	1698.7	1713.0	1723.7
15°	1664.8	1666.6	1673.8	1694.3	1703.2
17.5°	1632.7	1632.7	1647.0	1663.0	1673.8
20°	1591.7	1594.3	1610.4	1628.2	1639.0
22.5°	1549.7	1554.2	1567.6	1588.1	1597.9
25°	1502.5	1507.8	1519.4	1539.0	1547.1
27.5°	1447.1	1454.3	1466.8	1481.0	1498.0
30°	1383.8	1394.5	1402.5	1422.2	1440.9
32.5°	1319.6	1329.4	1338.3	1358.8	1380.2
35°	1244.6	1255.3	1258.9	1289.2	1309.7
37.5°	1167.9	1172.3	1174.1	1204.5	1226.8
40°	1076.0	1084.9	1087.6	1111.7	1125.9
42.5°	987.7	991.2	996.6	1014.4	1031.4
45°	892.2	896.7	908.3	913.6	922.5
47.5°	792.3	805.6	819.0	802.1	803.0
50°	701.3	712.0	726.2	694.1	694.1
52.5°	620.1	625.4	626.3	599.6	604.9
55°	546.0	532.6	531.7	513.9	524.6
57.5°	472.0	454.1	447.9	442.5	455.0
60°	412.2	380.1	371.2	379.2	396.1
62.5°	363.1	322.1	305.1	325.6	340.8
65°	311.4	273.9	246.2	284.6	300.7
67.5°	271.2	235.5	199.9	254.3	265.9
70°	233.8	206.1	165.1	231.1	240.0
72.5°	203.4	182.0	142.8	208.8	219.5
75°	176.7	158.8	132.0	184.7	201.6
77.5°	155.2	135.6	123.1	159.7	180.2
80°	131.2	111.5	111.5	133.8	152.6
82.5°	103.5	87.4	90.1	108.8	122.2
85°	68.7	64.2	60.7	79.4	86.5
87.5°	34.8	35.7	32.1	41.0	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)