

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: P292318

Luminaire Tested: **22GR-LD5-43-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292318  
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-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4075.0 lumens  
Efficiency: N/A  
Efficacy: 112.6 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

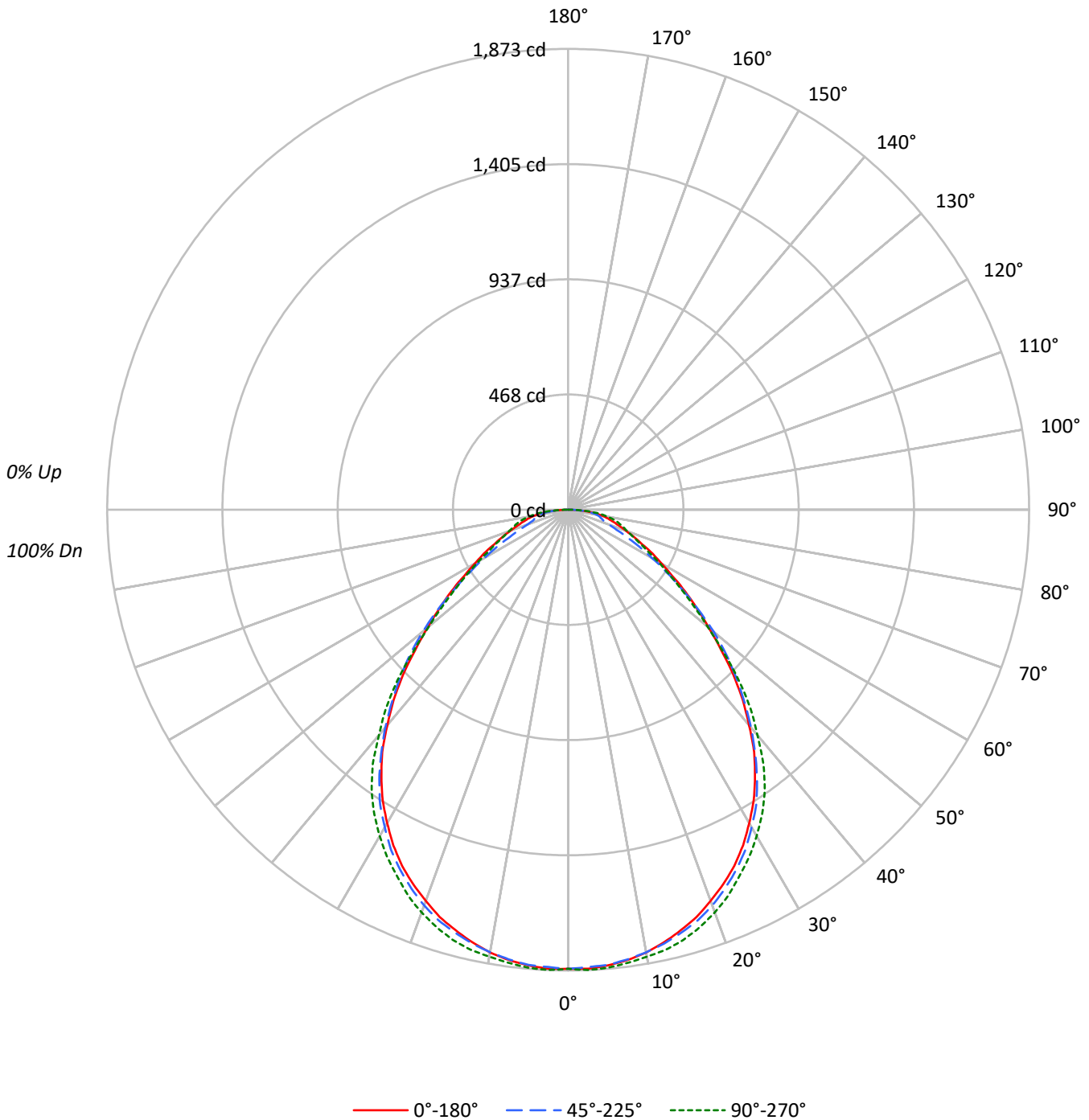
Input Watts (W): 36.177  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	5022	5022	5022
5°	5023	5015	5046
10°	4993	4991	5040
15°	4930	4956	5043
20°	4844	4901	4989
25°	4741	4795	4882
30°	4570	4632	4759
35°	4346	4395	4573
40°	4017	4060	4204
45°	3609	3674	3731
50°	3120	3231	3089
55°	2723	2652	2616
60°	2358	2123	2266
65°	2107	1666	2035
70°	1954	1380	2007
75°	1953	1459	2228
80°	2160	1836	2514
85°	2254	1991	2841



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.6	4.3
10°-20°	503.0	12.3
20°-30°	743.9	18.3
30°-40°	839.5	20.6
40°-50°	740.0	18.2
50°-60°	507.6	12.5
60°-70°	299.5	7.4
70°-80°	186.9	4.6
80°-90°	77.9	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°	1423.5	34.9
0°-40°	2262.9	55.5
0°-60°	3510.6	86.1
0°-90°	4075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4075.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1866	1866	1866	1866	1866	
5°	1860	1856	1857	1863	1868	176
15°	1770	1771	1779	1801	1810	499
25°	1597	1603	1615	1636	1644	733
35°	1323	1334	1338	1370	1392	824
45°	948	953	965	971	980	728
55°	580	566	565	546	558	521
65°	331	291	262	302	320	333
75°	188	169	140	196	214	201
85°	73	68	64	84	92	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1866.2	1866.2	1866.2	1866.2	1866.2
2.5°	1867.2	1862.4	1860.5	1868.1	1872.8
5°	1859.6	1855.8	1856.7	1863.4	1868.1
7.5°	1846.3	1843.4	1843.4	1852.9	1857.7
10°	1827.3	1826.4	1826.4	1837.8	1844.4
12.5°	1800.8	1801.7	1805.5	1820.7	1832.1
15°	1769.5	1771.4	1779.0	1800.8	1810.3
17.5°	1735.3	1735.3	1750.5	1767.6	1779.0
20°	1691.7	1694.6	1711.6	1730.6	1742.0
22.5°	1647.2	1651.9	1666.1	1687.9	1698.4
25°	1596.9	1602.6	1614.9	1635.8	1644.3
27.5°	1538.1	1545.7	1559.0	1574.1	1592.2
30°	1470.8	1482.2	1490.7	1511.5	1531.5
32.5°	1402.5	1412.9	1422.4	1444.2	1467.0
35°	1322.8	1334.2	1338.0	1370.3	1392.1
37.5°	1241.3	1246.0	1247.9	1280.2	1303.9
40°	1143.6	1153.1	1155.9	1181.5	1196.7
42.5°	1049.7	1053.5	1059.2	1078.2	1096.2
45°	948.3	953.0	965.3	971.0	980.5
47.5°	842.1	856.3	870.5	852.5	853.4
50°	745.3	756.7	771.9	737.8	737.8
52.5°	659.1	664.7	665.7	637.2	642.9
55°	580.3	566.1	565.2	546.2	557.6
57.5°	501.6	482.7	476.0	470.3	483.6
60°	438.1	404.0	394.5	403.0	421.0
62.5°	385.9	342.3	324.3	346.1	362.2
65°	330.9	291.1	261.7	302.5	319.6
67.5°	288.3	250.3	212.4	270.3	282.6
70°	248.4	219.1	175.4	245.6	255.1
72.5°	216.2	193.4	151.7	221.9	233.3
75°	187.8	168.8	140.3	196.3	214.3
77.5°	165.0	144.1	130.9	169.7	191.6
80°	139.4	118.5	118.5	142.2	162.2
82.5°	110.0	92.9	95.8	115.7	129.9
85°	73.0	68.3	64.5	84.4	92.0
87.5°	37.0	37.9	34.1	43.6	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)