

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: P292319

Luminaire Tested: **22GR-LD5-43-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292319  
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-5700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4092.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 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

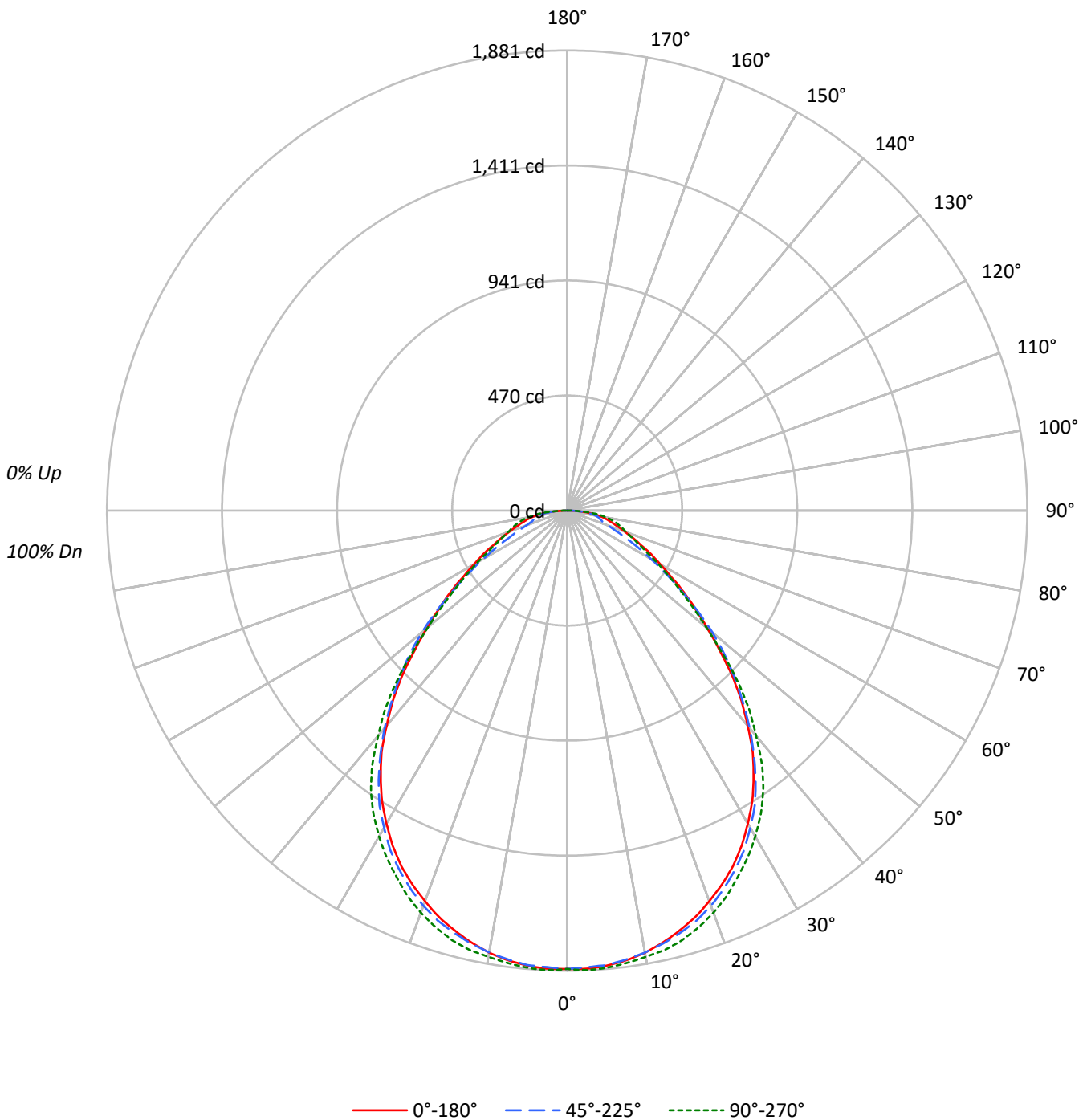
Input Watts (W): 36.27  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5043	5043	5043
5°	5044	5036	5067
10°	5014	5011	5061
15°	4950	4977	5064
20°	4865	4922	5009
25°	4761	4815	4903
30°	4589	4651	4779
35°	4364	4414	4592
40°	4034	4078	4221
45°	3624	3689	3747
50°	3134	3245	3101
55°	2734	2662	2627
60°	2368	2132	2275
65°	2116	1673	2043
70°	1963	1386	2015
75°	1960	1465	2237
80°	2170	1844	2523
85°	2263	2001	2853



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.3	4.3
10°-20°	505.1	12.3
20°-30°	747.0	18.3
30°-40°	843.0	20.6
40°-50°	743.1	18.2
50°-60°	509.8	12.5
60°-70°	300.8	7.4
70°-80°	187.7	4.6
80°-90°	78.3	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°	1429.4	34.9
0°-40°	2272.4	55.5
0°-60°	3525.2	86.1
0°-90°	4092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4092.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1874	1874	1874	1874	1874	
5°	1867	1864	1864	1871	1876	177
15°	1777	1779	1786	1808	1818	501
25°	1604	1609	1622	1643	1651	736
35°	1328	1340	1344	1376	1398	828
45°	952	957	969	975	985	731
55°	583	568	568	548	560	523
65°	332	292	263	304	321	335
75°	188	170	141	197	215	202
85°	73	69	65	85	92	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1874.0	1874.0	1874.0	1874.0	1874.0
2.5°	1874.9	1870.2	1868.3	1875.9	1880.7
5°	1867.3	1863.5	1864.5	1871.1	1875.9
7.5°	1854.0	1851.1	1851.1	1860.7	1865.4
10°	1834.9	1834.0	1834.0	1845.4	1852.1
12.5°	1808.3	1809.2	1813.0	1828.3	1839.7
15°	1776.9	1778.8	1786.4	1808.3	1817.8
17.5°	1742.6	1742.6	1757.8	1775.0	1786.4
20°	1698.8	1701.6	1718.8	1737.8	1749.2
22.5°	1654.0	1658.8	1673.1	1695.0	1705.4
25°	1603.6	1609.3	1621.6	1642.6	1651.2
27.5°	1544.5	1552.1	1565.5	1580.7	1598.8
30°	1476.9	1488.3	1496.9	1517.9	1537.9
32.5°	1408.3	1418.8	1428.3	1450.2	1473.1
35°	1328.4	1339.8	1343.6	1376.0	1397.9
37.5°	1246.5	1251.2	1253.1	1285.5	1309.3
40°	1148.4	1157.9	1160.8	1186.5	1201.7
42.5°	1054.1	1057.9	1063.6	1082.7	1100.8
45°	952.2	957.0	969.4	975.1	984.6
47.5°	845.6	859.9	874.1	856.1	857.0
50°	748.5	759.9	775.1	740.8	740.8
52.5°	661.8	667.5	668.5	639.9	645.6
55°	582.8	568.5	567.5	548.5	559.9
57.5°	503.7	484.7	478.0	472.3	485.6
60°	439.9	405.6	396.1	404.7	422.8
62.5°	387.6	343.8	325.7	347.6	363.8
65°	332.3	292.3	262.8	303.8	320.9
67.5°	289.5	251.4	213.3	271.4	283.8
70°	249.5	220.0	176.2	246.6	256.1
72.5°	217.1	194.3	152.4	222.8	234.2
75°	188.5	169.5	140.9	197.1	215.2
77.5°	165.7	144.7	131.4	170.4	192.4
80°	140.0	119.0	119.0	142.8	162.8
82.5°	110.5	93.3	96.2	116.2	130.5
85°	73.3	68.6	64.8	84.7	92.4
87.5°	37.1	38.1	34.3	43.8	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)