

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: P292514

Luminaire Tested: **22GR-LD5-43-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-43-A125-UNV-L92765-W2A1-U-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4067.0 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

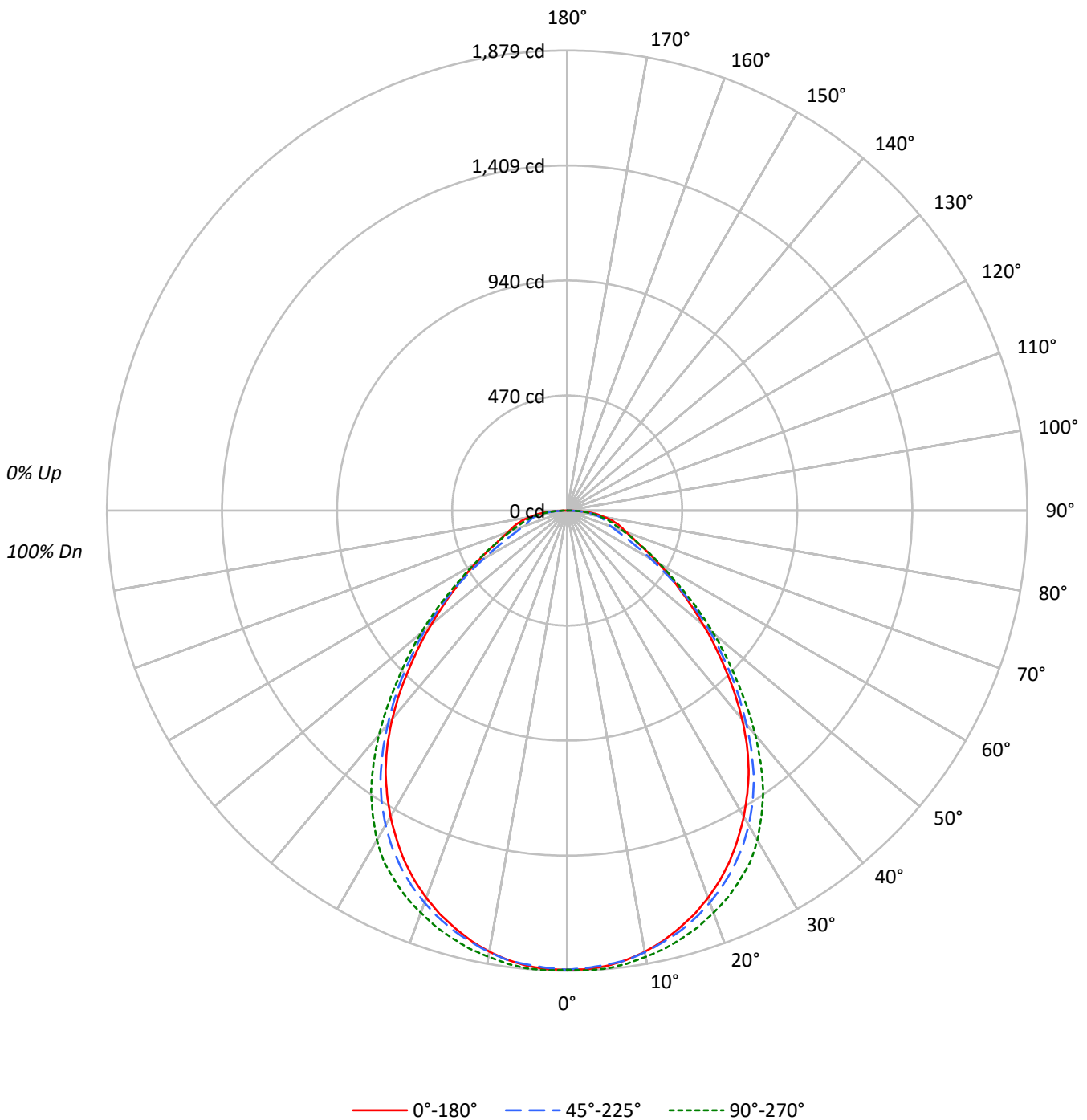
Input Watts (W): 36.177  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	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	52	46	41	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	34	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	29

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

	0°	45°	90°
0°	5045	5045	5045
5°	5041	5028	5069
10°	4998	5003	5055
15°	4919	4953	5038
20°	4817	4880	5005
25°	4676	4772	4947
30°	4482	4608	4829
35°	4246	4364	4585
40°	3904	4000	4200
45°	3468	3594	3724
50°	3029	3168	3263
55°	2634	2669	2767
60°	2317	2123	2363
65°	2059	1697	2071
70°	2022	1507	1910
75°	2208	1656	1953
80°	2425	1970	2087
85°	2899	2285	2343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.2	4.4
10°-20°	502.5	12.4
20°-30°	741.8	18.2
30°-40°	830.0	20.4
40°-50°	728.9	17.9
50°-60°	515.7	12.7
60°-70°	300.2	7.4
70°-80°	187.1	4.6
80°-90°	83.7	2.1
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°	1421.4	34.9
0°-40°	2251.4	55.4
0°-60°	3496.0	86.0
0°-90°	4067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1875	1875	1875	1875	1875	
5°	1866	1861	1861	1871	1877	177
15°	1766	1769	1778	1797	1808	497
25°	1575	1582	1607	1645	1666	723
35°	1292	1298	1328	1368	1396	804
45°	911	922	944	967	979	705
55°	561	573	569	579	590	507
65°	323	298	266	290	325	328
75°	212	183	159	163	188	222
85°	94	98	74	72	76	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1874.7	1874.7	1874.7	1874.7	1874.7
2.5°	1874.7	1870.9	1869.0	1875.6	1879.4
5°	1866.2	1861.4	1861.4	1870.9	1876.6
7.5°	1851.0	1846.2	1851.9	1860.5	1866.2
10°	1829.2	1827.3	1831.1	1842.4	1850.0
12.5°	1800.7	1801.7	1805.5	1823.5	1833.0
15°	1765.6	1769.4	1778.0	1796.9	1808.3
17.5°	1727.7	1730.6	1743.8	1765.6	1781.8
20°	1682.2	1687.9	1704.0	1731.5	1747.6
22.5°	1631.9	1638.6	1658.5	1691.7	1711.6
25°	1575.0	1581.7	1607.3	1645.2	1666.1
27.5°	1510.6	1521.0	1549.4	1591.2	1619.6
30°	1442.3	1450.8	1483.1	1530.5	1554.2
32.5°	1369.3	1379.7	1410.0	1455.6	1476.4
35°	1292.5	1298.2	1328.5	1368.3	1395.8
37.5°	1205.2	1208.1	1236.5	1273.5	1298.2
40°	1111.3	1113.2	1138.8	1173.9	1195.7
42.5°	1013.7	1014.6	1042.1	1068.7	1087.6
45°	911.3	921.7	944.5	967.2	978.6
47.5°	819.3	826.9	847.7	867.6	878.1
50°	723.5	742.5	756.7	767.1	779.5
52.5°	641.0	657.1	660.9	673.3	683.7
55°	561.4	572.7	568.9	579.4	589.8
57.5°	494.0	488.3	476.0	494.0	507.3
60°	430.5	415.3	394.5	419.1	439.0
62.5°	373.6	349.0	323.4	348.0	381.2
65°	323.4	297.7	266.5	290.2	325.2
67.5°	285.4	258.9	221.9	245.6	280.7
70°	257.0	229.5	191.5	211.5	242.8
72.5°	234.2	204.8	171.6	184.9	211.5
75°	212.4	183.0	159.3	163.1	187.8
77.5°	186.8	165.0	146.0	144.1	163.1
80°	156.5	149.8	127.1	124.2	134.7
82.5°	129.0	126.1	104.3	101.5	105.3
85°	93.9	97.7	74.0	72.1	75.9
87.5°	49.3	54.1	38.9	40.8	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)