

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: P292513

Luminaire Tested: **22GR-LD5-43-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292513
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4005.0 lumens
Efficiency: N/A
Efficacy: 111.3 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

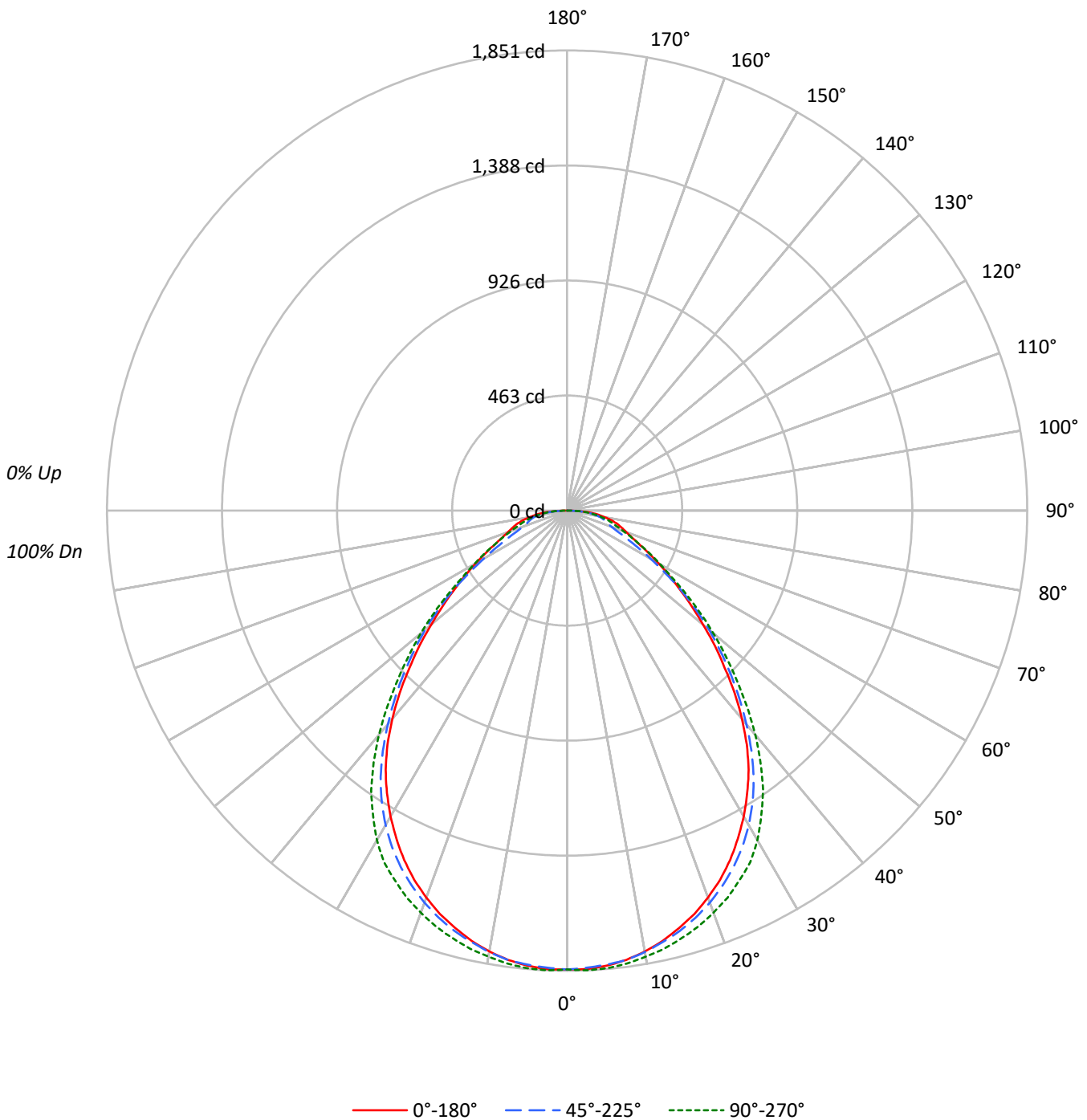
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4968	4968	4968
5°	4964	4951	4992
10°	4922	4927	4978
15°	4844	4878	4961
20°	4744	4805	4928
25°	4605	4700	4872
30°	4413	4538	4756
35°	4181	4298	4515
40°	3844	3940	4136
45°	3415	3540	3667
50°	2983	3120	3213
55°	2594	2629	2725
60°	2281	2091	2327
65°	2027	1671	2039
70°	1991	1484	1881
75°	2175	1631	1922
80°	2388	1939	2055
85°	2853	2248	2306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	4.4
10°-20°	494.8	12.4
20°-30°	730.4	18.2
30°-40°	817.4	20.4
40°-50°	717.8	17.9
50°-60°	507.9	12.7
60°-70°	295.6	7.4
70°-80°	184.2	4.6
80°-90°	82.4	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°	1399.7	34.9
0°-40°	2217.1	55.4
0°-60°	3442.7	86.0
0°-90°	4005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1846	1846	1846	1846	1846	
5°	1838	1833	1833	1842	1848	174
15°	1739	1742	1751	1770	1781	490
25°	1551	1558	1583	1620	1641	712
35°	1273	1278	1308	1348	1374	792
45°	897	908	930	952	964	694
55°	553	564	560	570	581	500
65°	318	293	262	286	320	323
75°	209	180	157	161	185	218
85°	92	96	73	71	75	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1846.1	1846.1	1846.1	1846.1	1846.1
2.5°	1846.1	1842.4	1840.5	1847.0	1850.8
5°	1837.7	1833.0	1833.0	1842.4	1848.0
7.5°	1822.8	1818.1	1823.7	1832.1	1837.7
10°	1801.3	1799.4	1803.2	1814.4	1821.8
12.5°	1773.3	1774.2	1777.9	1795.7	1805.0
15°	1738.7	1742.5	1750.9	1769.5	1780.7
17.5°	1701.4	1704.2	1717.2	1738.7	1754.6
20°	1656.5	1662.1	1678.0	1705.1	1721.0
22.5°	1607.1	1613.6	1633.2	1665.9	1685.5
25°	1551.0	1557.6	1582.8	1620.1	1640.7
27.5°	1487.5	1497.8	1525.8	1566.9	1594.9
30°	1420.3	1428.7	1460.5	1507.1	1530.5
32.5°	1348.4	1358.7	1388.5	1433.4	1453.9
35°	1272.8	1278.4	1308.2	1347.5	1374.5
37.5°	1186.8	1189.7	1217.7	1254.1	1278.4
40°	1094.4	1096.3	1121.5	1156.0	1177.5
42.5°	998.2	999.2	1026.2	1052.4	1071.1
45°	897.4	907.6	930.1	952.5	963.7
47.5°	806.8	814.3	834.8	854.4	864.7
50°	712.5	731.2	745.2	755.4	767.6
52.5°	631.2	647.1	650.9	663.0	673.3
55°	552.8	564.0	560.3	570.5	580.8
57.5°	486.5	480.9	468.8	486.5	499.6
60°	423.9	409.0	388.5	412.7	432.3
62.5°	367.9	343.6	318.4	342.7	375.4
65°	318.4	293.2	262.4	285.7	320.3
67.5°	281.1	254.9	218.5	241.9	276.4
70°	253.1	226.0	188.6	208.2	239.1
72.5°	230.6	201.7	169.0	182.1	208.2
75°	209.2	180.2	156.9	160.6	184.9
77.5°	184.0	162.5	143.8	141.9	160.6
80°	154.1	147.5	125.1	122.3	132.6
82.5°	127.0	124.2	102.7	99.9	103.7
85°	92.4	96.2	72.8	71.0	74.7
87.5°	48.6	53.2	38.3	40.2	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)