

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: P292413

Luminaire Tested: **22GR-LD5-43-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292413
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-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4325.0 lumens
Efficiency: N/A
Efficacy: 121.7 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

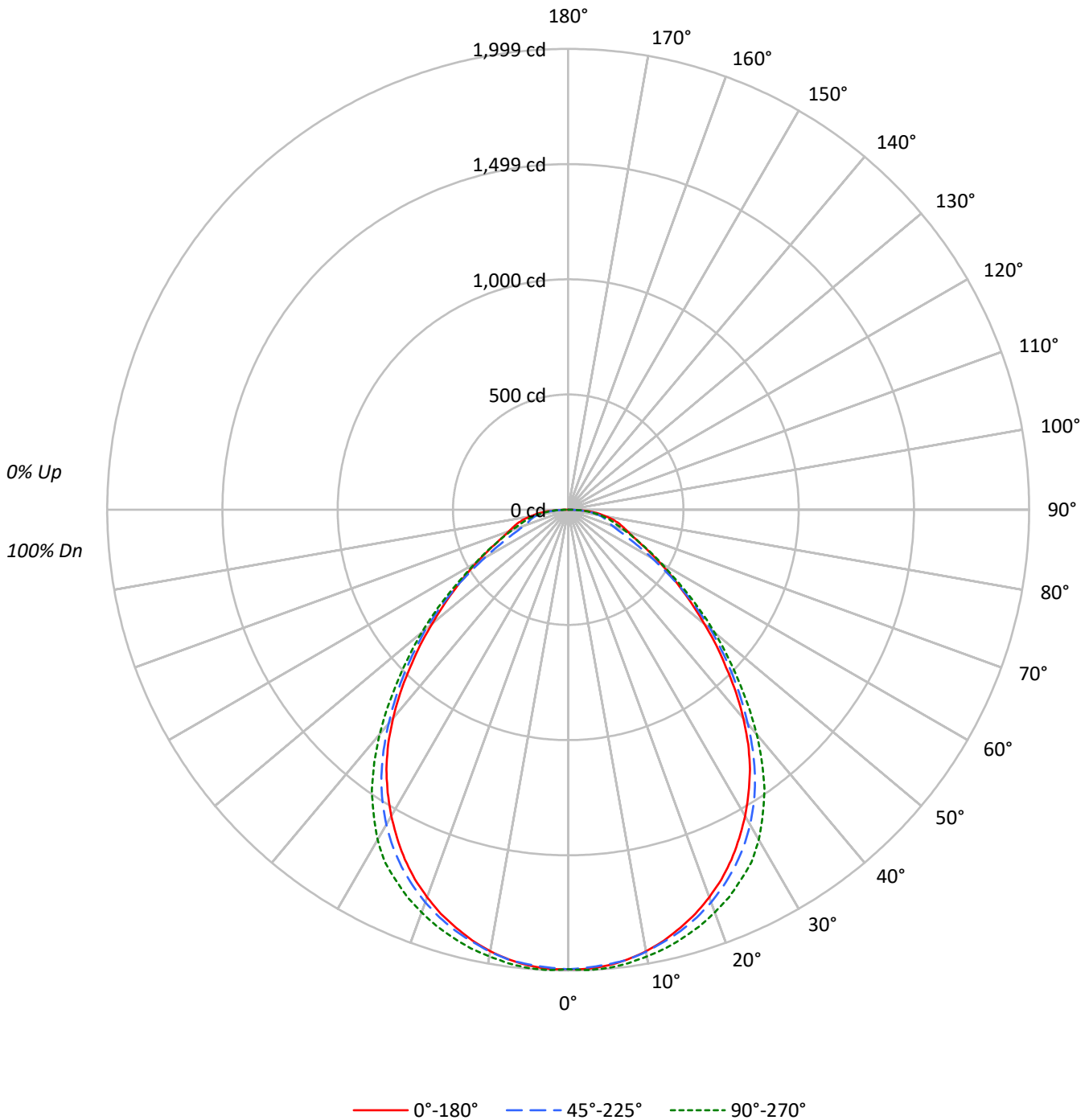
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5365	5365	5365
5°	5361	5347	5391
10°	5315	5321	5376
15°	5231	5268	5357
20°	5123	5189	5322
25°	4973	5075	5261
30°	4766	4900	5136
35°	4515	4641	4876
40°	4151	4254	4467
45°	3688	3822	3961
50°	3221	3369	3470
55°	2801	2838	2943
60°	2464	2258	2513
65°	2190	1805	2202
70°	2150	1603	2031
75°	2349	1761	2076
80°	2579	2094	2219
85°	3081	2430	2492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	4.4
10°-20°	534.3	12.4
20°-30°	788.8	18.2
30°-40°	882.7	20.4
40°-50°	775.1	17.9
50°-60°	548.5	12.7
60°-70°	319.3	7.4
70°-80°	199.0	4.6
80°-90°	89.0	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°	1511.5	34.9
0°-40°	2394.2	55.4
0°-60°	3717.8	86.0
0°-90°	4325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1994	1994	1994	1994	1994	
5°	1984	1980	1980	1990	1996	188
15°	1878	1882	1891	1911	1923	529
25°	1675	1682	1709	1750	1772	769
35°	1374	1380	1413	1455	1484	855
45°	969	980	1004	1029	1041	750
55°	597	609	605	616	627	540
65°	344	317	283	309	346	349
75°	226	195	169	173	200	236
85°	100	104	79	77	81	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1993.6	1993.6	1993.6	1993.6	1993.6
2.5°	1993.6	1989.6	1987.6	1994.6	1998.7
5°	1984.5	1979.5	1979.5	1989.6	1995.6
7.5°	1968.4	1963.4	1969.4	1978.5	1984.5
10°	1945.2	1943.2	1947.2	1959.3	1967.4
12.5°	1915.0	1916.0	1920.0	1939.2	1949.2
15°	1877.6	1881.7	1890.8	1910.9	1923.0
17.5°	1837.3	1840.3	1854.5	1877.6	1894.8
20°	1788.9	1795.0	1812.1	1841.3	1858.5
22.5°	1735.5	1742.5	1763.7	1799.0	1820.2
25°	1675.0	1682.0	1709.2	1749.6	1771.8
27.5°	1606.4	1617.5	1647.7	1692.1	1722.4
30°	1533.8	1542.9	1577.1	1627.6	1652.8
32.5°	1456.1	1467.2	1499.5	1547.9	1570.1
35°	1374.5	1380.5	1412.8	1455.1	1484.4
37.5°	1281.7	1284.7	1315.0	1354.3	1380.5
40°	1181.8	1183.9	1211.1	1248.4	1271.6
42.5°	1078.0	1079.0	1108.2	1136.5	1156.6
45°	969.1	980.2	1004.4	1028.6	1040.7
47.5°	871.3	879.3	901.5	922.7	933.8
50°	769.4	789.6	804.7	815.8	828.9
52.5°	681.7	698.8	702.9	716.0	727.1
55°	597.0	609.1	605.0	616.1	627.2
57.5°	525.4	519.3	506.2	525.4	539.5
60°	457.8	441.7	419.5	445.7	466.9
62.5°	397.3	371.1	343.9	370.1	405.4
65°	343.9	316.6	283.4	308.6	345.9
67.5°	303.5	275.3	236.0	261.2	298.5
70°	273.3	244.0	203.7	224.9	258.2
72.5°	249.1	217.8	182.5	196.6	224.9
75°	225.9	194.6	169.4	173.4	199.7
77.5°	198.7	175.5	155.3	153.3	173.4
80°	166.4	159.3	135.1	132.1	143.2
82.5°	137.1	134.1	110.9	107.9	111.9
85°	99.8	103.9	78.7	76.6	80.7
87.5°	52.4	57.5	41.3	43.4	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)