

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: P292409

Luminaire Tested: **22GR-LD5-40-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292409
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-LD5-40-A125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4242.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

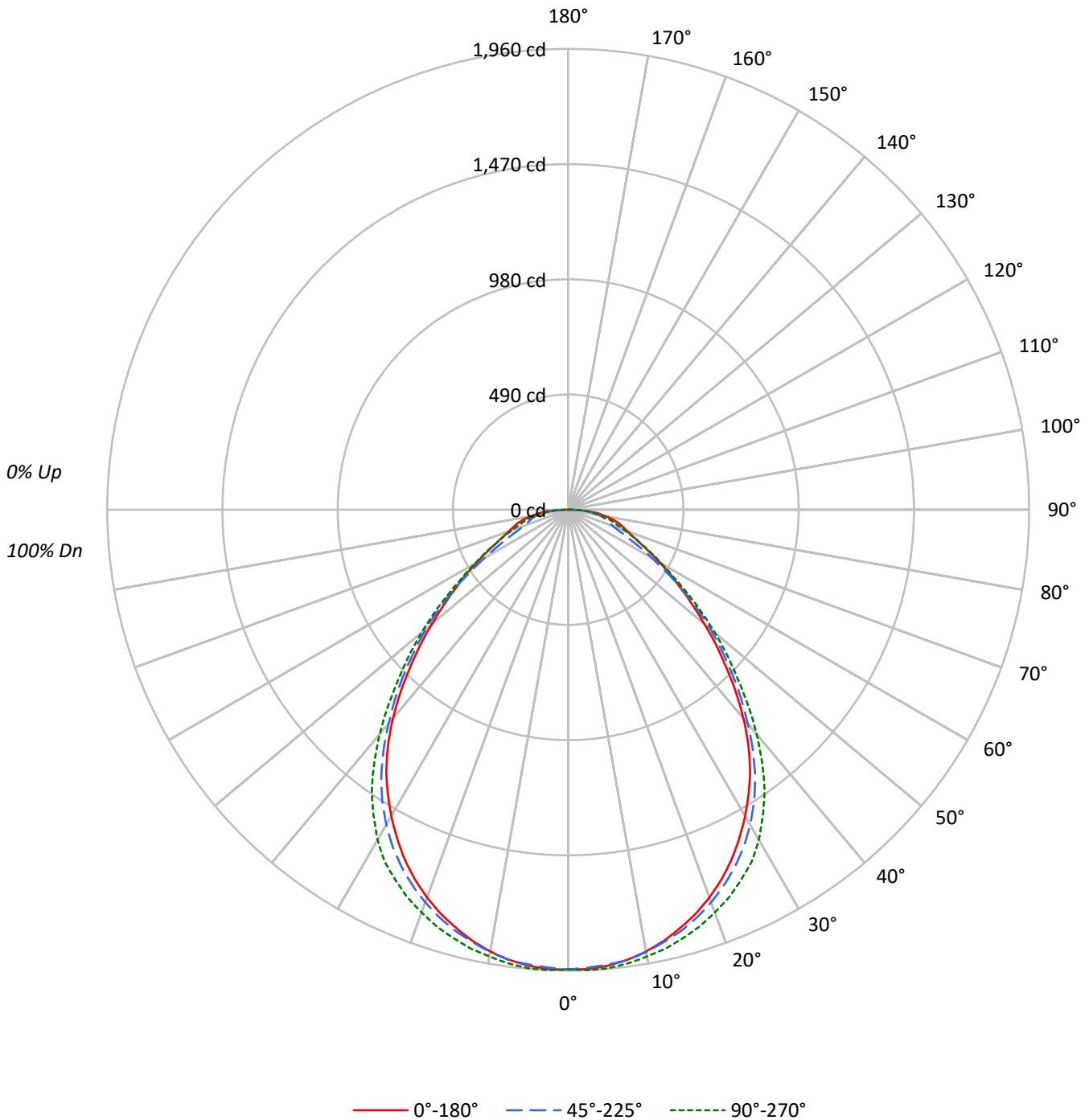
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292409

CATALOG NUMBER: 22GR-LD5-40-A125-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P292409

CATALOG NUMBER: 22GR-LD5-40-A125-UNV-L82765-W2A1-U-6500K

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°	5262	5262	5262
5°	5258	5244	5287
10°	5213	5219	5273
15°	5131	5166	5254
20°	5025	5090	5220
25°	4878	4978	5160
30°	4674	4807	5037
35°	4429	4552	4783
40°	4072	4173	4381
45°	3617	3749	3884
50°	3159	3304	3404
55°	2747	2784	2886
60°	2416	2214	2464
65°	2148	1769	2160
70°	2109	1572	1992
75°	2303	1728	2036
80°	2529	2053	2176
85°	3023	2381	2442



TEST NUMBER: P292409

CATALOG NUMBER: 22GR-LD5-40-A125-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	4.4
10°-20°	524.1	12.4
20°-30°	773.7	18.2
30°-40°	865.7	20.4
40°-50°	760.2	17.9
50°-60°	537.9	12.7
60°-70°	313.1	7.4
70°-80°	195.1	4.6
80°-90°	87.3	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°	1482.5	34.9
0°-40°	2348.2	55.4
0°-60°	3646.4	86.0
0°-90°	4242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1955	1955	1955	1955	1955	
5°	1946	1942	1942	1951	1957	185
15°	1842	1846	1854	1874	1886	519
25°	1643	1650	1676	1716	1738	755
35°	1348	1354	1386	1427	1456	838
45°	950	961	985	1009	1021	735
55°	586	597	593	604	615	529
65°	337	311	278	303	339	342
75°	222	191	166	170	196	231
85°	98	102	77	75	79	99
90°	0	0	0	0	0	



TEST NUMBER: P292409

CATALOG NUMBER: 22GR-LD5-40-A125-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1955.4	1955.4	1955.4	1955.4	1955.4
2.5°	1955.4	1951.4	1949.4	1956.3	1960.3
5°	1946.5	1941.5	1941.5	1951.4	1957.3
7.5°	1930.6	1925.7	1931.6	1940.5	1946.5
10°	1907.9	1905.9	1909.9	1921.7	1929.6
12.5°	1878.2	1879.2	1883.2	1901.9	1911.8
15°	1841.6	1845.6	1854.5	1874.2	1886.1
17.5°	1802.0	1805.0	1818.9	1841.6	1858.4
20°	1754.6	1760.5	1777.3	1806.0	1822.8
22.5°	1702.2	1709.1	1729.8	1764.5	1785.2
25°	1642.8	1649.7	1676.4	1716.0	1737.8
27.5°	1575.6	1586.4	1616.1	1659.6	1689.3
30°	1504.3	1513.2	1546.9	1596.3	1621.1
32.5°	1428.2	1439.1	1470.7	1518.2	1540.0
35°	1348.1	1354.0	1385.7	1427.2	1455.9
37.5°	1257.1	1260.0	1289.7	1328.3	1354.0
40°	1159.2	1161.1	1187.8	1224.4	1247.2
42.5°	1057.3	1058.3	1087.0	1114.7	1134.4
45°	950.5	961.4	985.1	1008.8	1020.7
47.5°	854.5	862.5	884.2	905.0	915.9
50°	754.6	774.4	789.3	800.1	813.0
52.5°	668.6	685.4	689.4	702.2	713.1
55°	585.5	597.4	593.4	604.3	615.2
57.5°	515.3	509.4	496.5	515.3	529.1
60°	449.0	433.2	411.4	437.2	457.9
62.5°	389.7	364.0	337.3	363.0	397.6
65°	337.3	310.6	277.9	302.6	339.2
67.5°	297.7	270.0	231.4	256.2	292.8
70°	268.0	239.4	199.8	220.6	253.2
72.5°	244.3	213.6	179.0	192.9	220.6
75°	221.5	190.9	166.2	170.1	195.8
77.5°	194.8	172.1	152.3	150.3	170.1
80°	163.2	156.3	132.5	129.6	140.4
82.5°	134.5	131.5	108.8	105.8	109.8
85°	97.9	101.9	77.1	75.2	79.1
87.5°	51.4	56.4	40.6	42.5	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)