

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: P292207

Luminaire Tested: **22GR-LD5-40-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292207
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-LD5-40-A-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3971.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

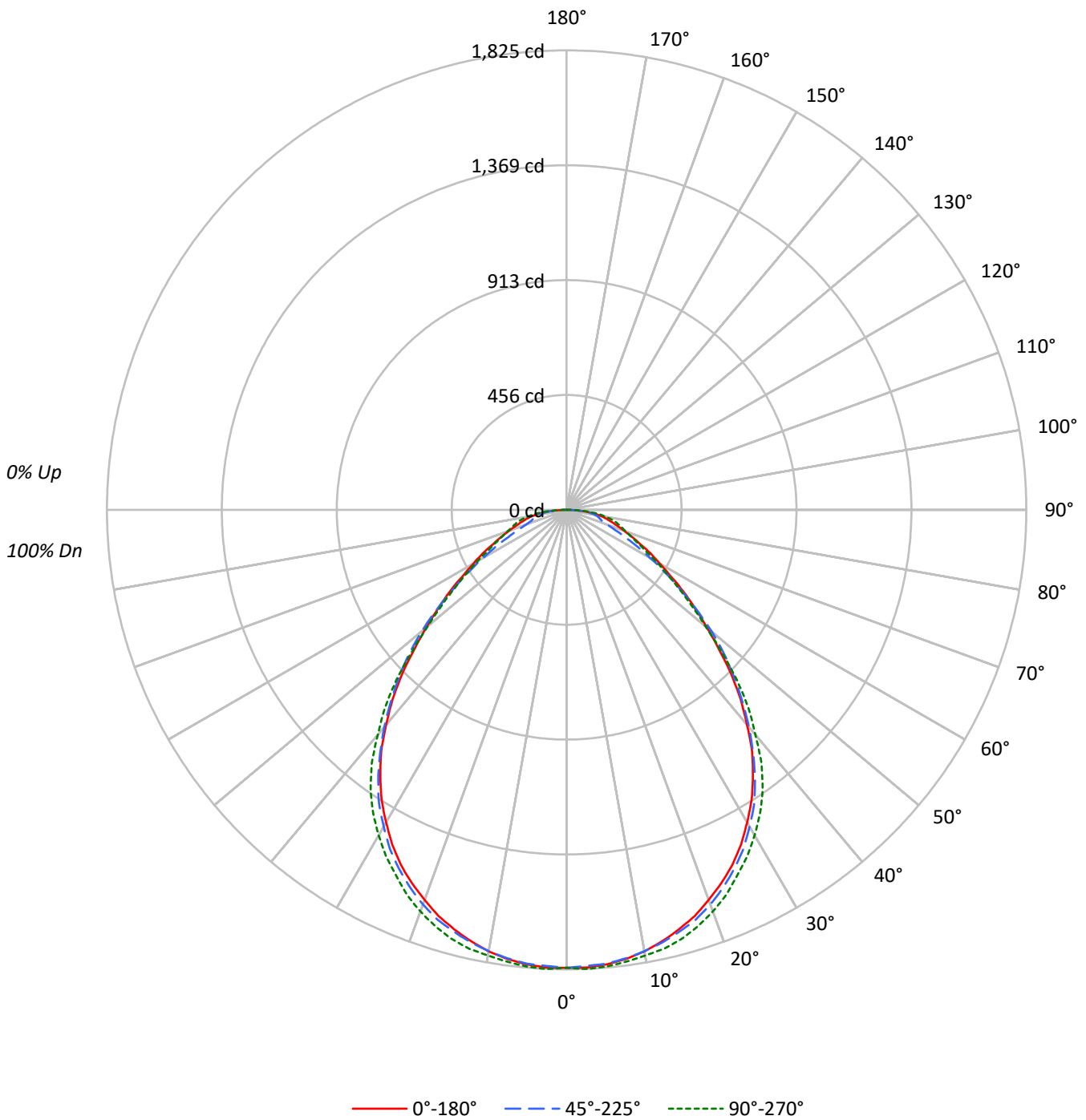
Input Watts (W): 32.55
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292207

CATALOG NUMBER: 22GR-LD5-40-A-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P292207

CATALOG NUMBER: 22GR-LD5-40-A-UNV-L82765-W2A1-U-3500K

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4894	4894	4894
5°	4895	4887	4917
10°	4866	4863	4911
15°	4804	4830	4915
20°	4721	4777	4861
25°	4620	4673	4757
30°	4453	4514	4637
35°	4235	4283	4456
40°	3915	3957	4097
45°	3517	3580	3636
50°	3041	3149	3010
55°	2653	2584	2549
60°	2298	2069	2208
65°	2053	1624	1983
70°	1905	1345	1956
75°	1903	1422	2171
80°	2104	1790	2448
85°	2198	1939	2766



TEST NUMBER: P292207

CATALOG NUMBER: 22GR-LD5-40-A-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	4.3
10°-20°	490.1	12.3
20°-30°	724.9	18.3
30°-40°	818.0	20.6
40°-50°	721.1	18.2
50°-60°	494.7	12.5
60°-70°	291.9	7.4
70°-80°	182.2	4.6
80°-90°	75.9	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°	1387.1	34.9
0°-40°	2205.2	55.5
0°-60°	3421.0	86.1
0°-90°	3971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1819	1819	1819	1819	1819	
5°	1812	1808	1809	1816	1820	172
15°	1724	1726	1734	1755	1764	486
25°	1556	1562	1574	1594	1602	715
35°	1289	1300	1304	1335	1356	803
45°	924	929	941	946	956	710
55°	566	552	551	532	543	507
65°	322	284	255	295	311	325
75°	183	164	137	191	209	196
85°	71	66	63	82	90	77
90°	0	0	0	0	0	



TEST NUMBER: P292207

CATALOG NUMBER: 22GR-LD5-40-A-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.6	1818.6	1818.6	1818.6	1818.6
2.5°	1819.5	1814.9	1813.0	1820.4	1825.0
5°	1812.1	1808.4	1809.3	1815.8	1820.4
7.5°	1799.2	1796.4	1796.4	1805.6	1810.3
10°	1780.7	1779.8	1779.8	1790.9	1797.3
12.5°	1754.8	1755.7	1759.4	1774.2	1785.3
15°	1724.3	1726.2	1733.6	1754.8	1764.1
17.5°	1691.1	1691.1	1705.8	1722.5	1733.6
20°	1648.5	1651.3	1668.0	1686.4	1697.5
22.5°	1605.1	1609.7	1623.6	1644.8	1655.0
25°	1556.1	1561.7	1573.7	1594.0	1602.3
27.5°	1498.8	1506.2	1519.2	1534.0	1551.5
30°	1433.2	1444.3	1452.6	1473.0	1492.4
32.5°	1366.7	1376.9	1386.1	1407.4	1429.5
35°	1289.1	1300.2	1303.9	1335.3	1356.5
37.5°	1209.6	1214.2	1216.1	1247.5	1270.6
40°	1114.4	1123.7	1126.4	1151.4	1166.2
42.5°	1022.9	1026.6	1032.2	1050.7	1068.2
45°	924.1	928.7	940.7	946.3	955.5
47.5°	820.6	834.4	848.3	830.7	831.7
50°	726.3	737.4	752.2	718.9	718.9
52.5°	642.2	647.8	648.7	621.0	626.5
55°	565.5	551.7	550.7	532.3	543.4
57.5°	488.8	470.4	463.9	458.3	471.3
60°	426.9	393.7	384.4	392.7	410.3
62.5°	376.1	333.6	316.0	337.3	353.0
65°	322.5	283.7	255.0	294.8	311.4
67.5°	280.9	244.0	207.0	263.4	275.4
70°	242.1	213.5	171.0	239.3	248.6
72.5°	210.7	188.5	147.9	216.2	227.3
75°	183.0	164.5	136.8	191.3	208.8
77.5°	160.8	140.5	127.5	165.4	186.7
80°	135.8	115.5	115.5	138.6	158.0
82.5°	107.2	90.6	93.3	112.7	126.6
85°	71.2	66.5	62.8	82.2	89.6
87.5°	36.0	37.0	33.3	42.5	43.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)