

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: P292310

Luminaire Tested: **22GR-LD5-40-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292310
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-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3833.0 lumens
Efficiency: N/A
Efficacy: 114.8 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

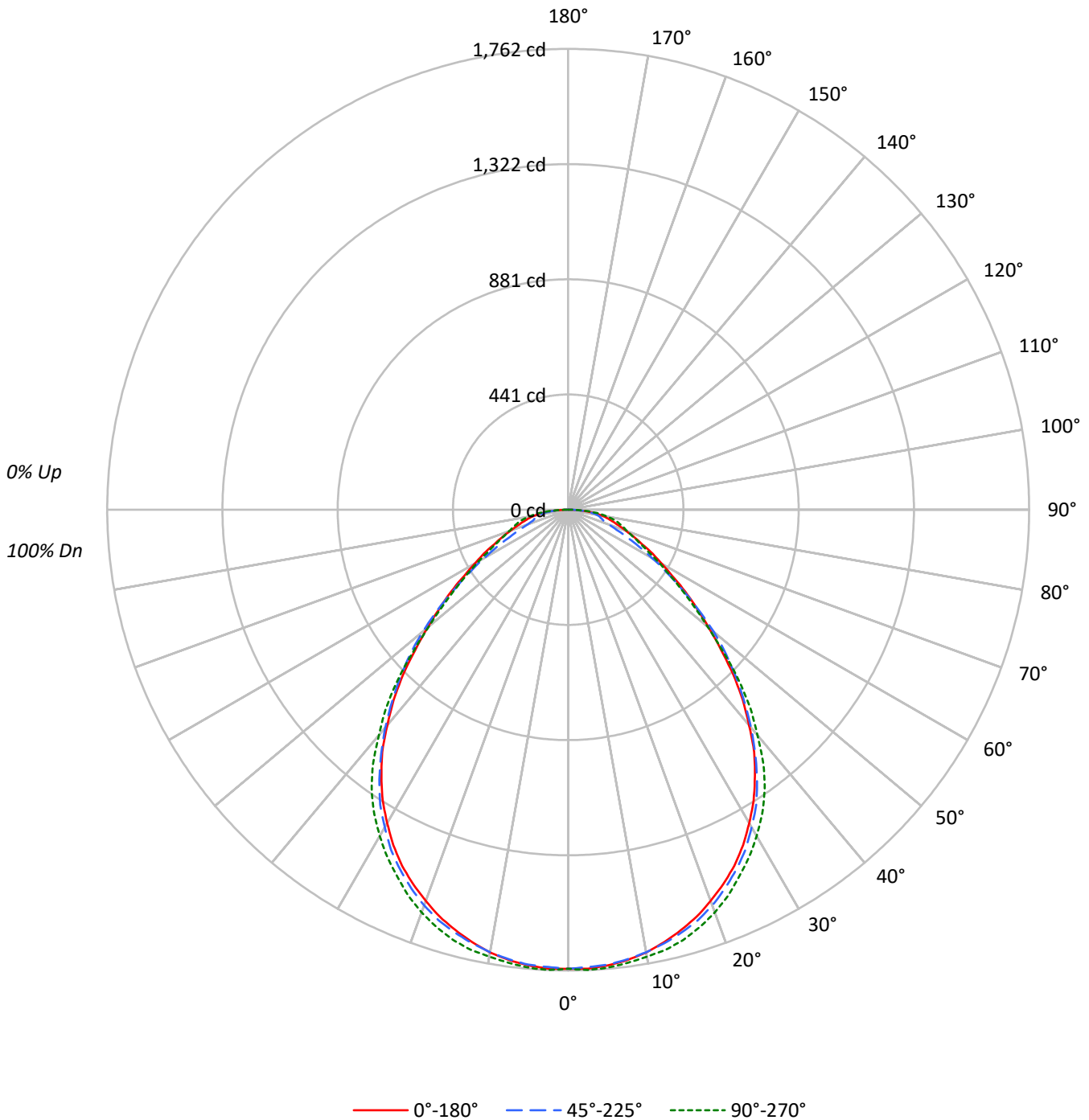
Input Watts (W): 33.387
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4724	4724	4724
5°	4725	4718	4747
10°	4697	4694	4741
15°	4637	4662	4744
20°	4557	4611	4692
25°	4460	4510	4592
30°	4299	4357	4476
35°	4088	4135	4301
40°	3779	3819	3954
45°	3395	3456	3510
50°	2935	3040	2905
55°	2561	2494	2461
60°	2218	1997	2131
65°	1982	1568	1914
70°	1839	1298	1888
75°	1836	1372	2096
80°	2032	1728	2363
85°	2121	1874	2671



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	4.3
10°-20°	473.1	12.3
20°-30°	699.7	18.3
30°-40°	789.6	20.6
40°-50°	696.1	18.2
50°-60°	477.5	12.5
60°-70°	281.8	7.4
70°-80°	175.8	4.6
80°-90°	73.3	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°	1338.9	34.9
0°-40°	2128.5	55.5
0°-60°	3302.1	86.1
0°-90°	3833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1749	1746	1746	1753	1757	166
15°	1664	1666	1673	1694	1703	469
25°	1502	1507	1519	1539	1547	690
35°	1244	1255	1259	1289	1309	775
45°	892	896	908	913	922	685
55°	546	532	532	514	524	490
65°	311	274	246	284	301	314
75°	177	159	132	185	202	189
85°	69	64	61	79	86	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1755.4	1755.4	1755.4	1755.4	1755.4
2.5°	1756.3	1751.8	1750.0	1757.2	1761.6
5°	1749.1	1745.6	1746.5	1752.7	1757.2
7.5°	1736.6	1734.0	1734.0	1742.9	1747.3
10°	1718.8	1717.9	1717.9	1728.6	1734.9
12.5°	1693.8	1694.7	1698.3	1712.6	1723.3
15°	1664.4	1666.2	1673.3	1693.8	1702.7
17.5°	1632.3	1632.3	1646.6	1662.6	1673.3
20°	1591.3	1593.9	1610.0	1627.8	1638.5
22.5°	1549.3	1553.8	1567.2	1587.7	1597.5
25°	1502.1	1507.4	1519.0	1538.6	1546.7
27.5°	1446.8	1453.9	1466.4	1480.7	1497.6
30°	1383.4	1394.1	1402.2	1421.8	1440.5
32.5°	1319.2	1329.0	1337.9	1358.5	1379.9
35°	1244.3	1255.0	1258.6	1288.9	1309.4
37.5°	1167.6	1172.0	1173.8	1204.1	1226.4
40°	1075.7	1084.6	1087.3	1111.4	1125.7
42.5°	987.4	991.0	996.3	1014.2	1031.1
45°	892.0	896.4	908.0	913.4	922.3
47.5°	792.1	805.4	818.8	801.9	802.8
50°	701.1	711.8	726.1	693.9	693.9
52.5°	619.9	625.3	626.2	599.4	604.7
55°	545.9	532.5	531.6	513.8	524.5
57.5°	471.8	454.0	447.8	442.4	454.9
60°	412.1	380.0	371.1	379.1	396.0
62.5°	363.0	322.0	305.0	325.6	340.7
65°	311.3	273.8	246.2	284.5	300.6
67.5°	271.2	235.5	199.8	254.2	265.8
70°	233.7	206.0	165.0	231.0	239.9
72.5°	203.4	182.0	142.7	208.7	219.4
75°	176.6	158.8	132.0	184.6	201.6
77.5°	155.2	135.6	123.1	159.7	180.2
80°	131.1	111.5	111.5	133.8	152.5
82.5°	103.5	87.4	90.1	108.8	122.2
85°	68.7	64.2	60.7	79.4	86.5
87.5°	34.8	35.7	32.1	41.0	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)