

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: P292308

Luminaire Tested: **22GR-LD5-40-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292308
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3758.0 lumens
Efficiency: N/A
Efficacy: 113.5 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

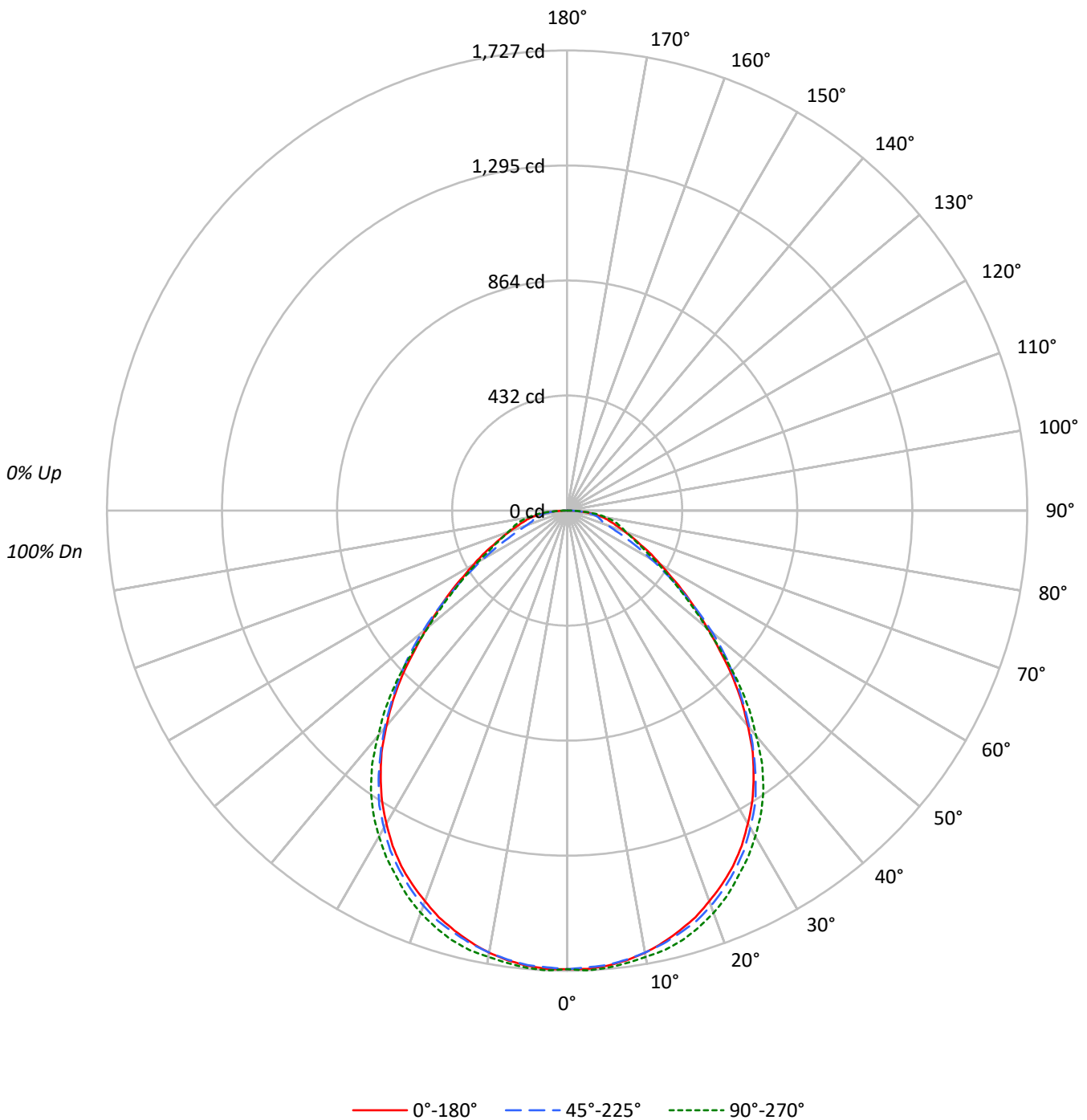
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	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	53	46	42	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	35	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	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4631	4631	4631
5°	4632	4625	4654
10°	4605	4602	4648
15°	4546	4571	4651
20°	4468	4520	4601
25°	4373	4422	4502
30°	4215	4272	4388
35°	4007	4053	4217
40°	3705	3745	3877
45°	3328	3388	3441
50°	2878	2980	2848
55°	2511	2445	2412
60°	2174	1958	2090
65°	1943	1537	1876
70°	1803	1273	1851
75°	1801	1345	2054
80°	1993	1694	2317
85°	2078	1837	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	4.3
10°-20°	463.9	12.3
20°-30°	686.0	18.3
30°-40°	774.2	20.6
40°-50°	682.4	18.2
50°-60°	468.2	12.5
60°-70°	276.3	7.4
70°-80°	172.4	4.6
80°-90°	71.9	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°	1312.7	34.9
0°-40°	2086.9	55.5
0°-60°	3237.5	86.1
0°-90°	3758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1715	1711	1712	1718	1723	163
15°	1632	1634	1641	1661	1669	460
25°	1473	1478	1489	1508	1516	676
35°	1220	1230	1234	1264	1284	760
45°	874	879	890	896	904	672
55°	535	522	521	504	514	480
65°	305	268	241	279	295	307
75°	173	156	129	181	198	186
85°	67	63	60	78	85	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1721.0	1721.0	1721.0	1721.0	1721.0
2.5°	1721.9	1717.5	1715.8	1722.8	1727.1
5°	1714.9	1711.4	1712.3	1718.4	1722.8
7.5°	1702.7	1700.0	1700.0	1708.8	1713.2
10°	1685.2	1684.3	1684.3	1694.8	1700.9
12.5°	1660.7	1661.6	1665.1	1679.1	1689.5
15°	1631.8	1633.6	1640.6	1660.7	1669.4
17.5°	1600.3	1600.3	1614.3	1630.1	1640.6
20°	1560.1	1562.7	1578.5	1596.0	1606.5
22.5°	1519.0	1523.4	1536.5	1556.6	1566.2
25°	1472.7	1477.9	1489.3	1508.5	1516.4
27.5°	1418.4	1425.4	1437.7	1451.7	1468.3
30°	1356.4	1366.9	1374.7	1394.0	1412.3
32.5°	1293.4	1303.0	1311.8	1331.9	1352.9
35°	1219.9	1230.4	1233.9	1263.7	1283.8
37.5°	1144.7	1149.1	1150.9	1180.6	1202.4
40°	1054.7	1063.4	1066.0	1089.6	1103.6
42.5°	968.1	971.6	976.8	994.3	1010.9
45°	874.5	878.9	890.2	895.5	904.2
47.5°	776.6	789.7	802.8	786.2	787.1
50°	687.4	697.9	711.8	680.4	680.4
52.5°	607.8	613.0	613.9	587.7	592.9
55°	535.2	522.1	521.2	503.7	514.2
57.5°	462.6	445.1	439.0	433.8	446.0
60°	404.0	372.5	363.8	371.7	388.3
62.5°	355.9	315.7	299.1	319.2	334.1
65°	305.2	268.5	241.4	279.0	294.7
67.5°	265.8	230.9	195.9	249.2	260.6
70°	229.1	202.0	161.8	226.5	235.2
72.5°	199.4	178.4	139.9	204.6	215.1
75°	173.2	155.7	129.4	181.0	197.6
77.5°	152.2	132.9	120.7	156.5	176.7
80°	128.6	109.3	109.3	131.2	149.5
82.5°	101.4	85.7	88.3	106.7	119.8
85°	67.3	63.0	59.5	77.8	84.8
87.5°	34.1	35.0	31.5	40.2	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)