

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: P292306

Luminaire Tested: **22GR-LD5-40-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292306
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-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3591.0 lumens
Efficiency: N/A
Efficacy: 109.7 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

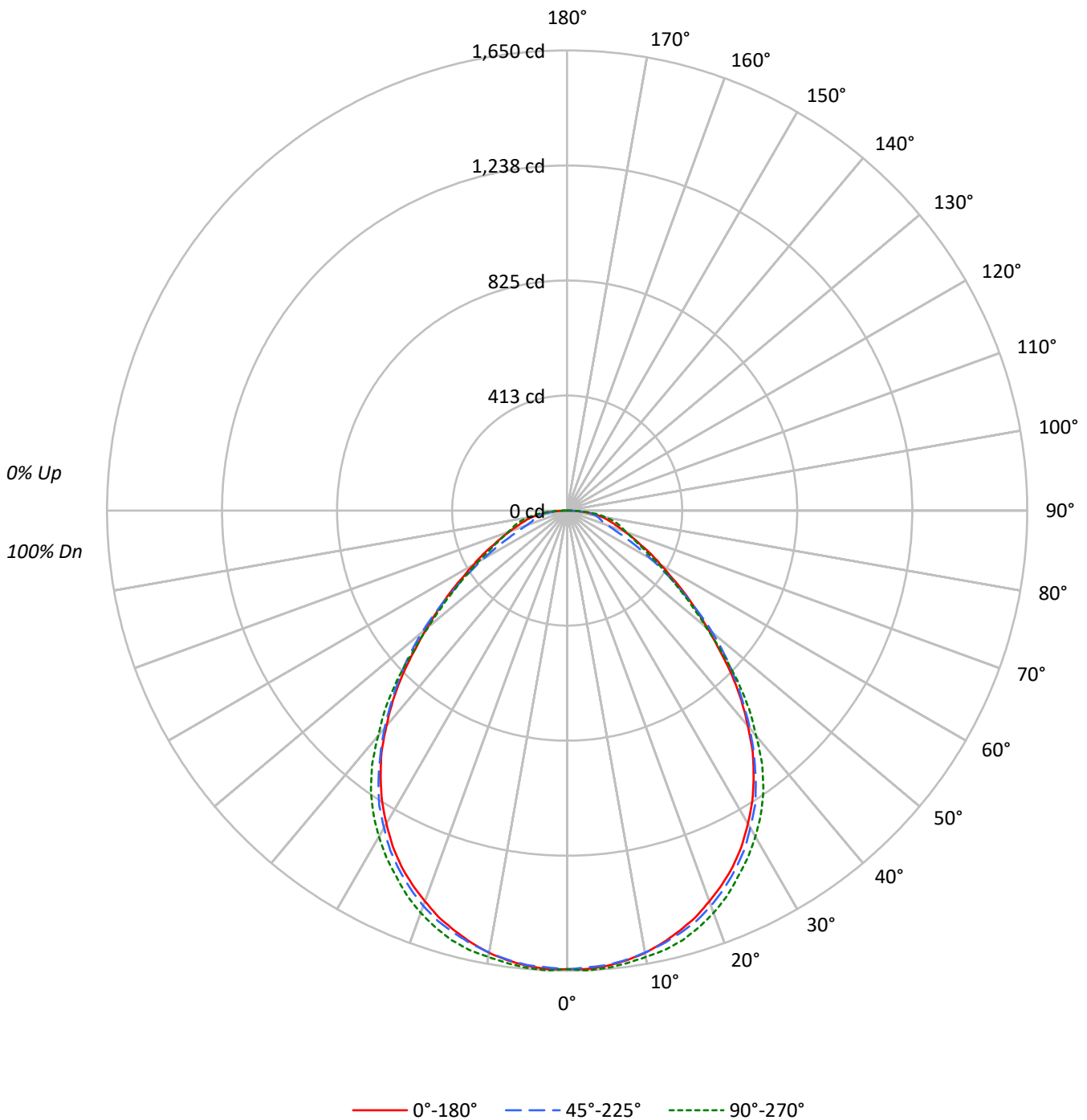
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4425	4425	4425
5°	4427	4420	4447
10°	4400	4398	4441
15°	4344	4367	4444
20°	4269	4319	4396
25°	4178	4225	4302
30°	4027	4082	4194
35°	3829	3873	4030
40°	3540	3579	3705
45°	3180	3237	3288
50°	2750	2848	2722
55°	2399	2336	2305
60°	2078	1871	1997
65°	1857	1468	1793
70°	1722	1216	1769
75°	1721	1286	1964
80°	1903	1619	2214
85°	1985	1754	2504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	4.3
10°-20°	443.2	12.3
20°-30°	655.5	18.3
30°-40°	739.7	20.6
40°-50°	652.1	18.2
50°-60°	447.3	12.5
60°-70°	264.0	7.4
70°-80°	164.7	4.6
80°-90°	68.7	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°	1254.4	34.9
0°-40°	1994.1	55.5
0°-60°	3093.6	86.1
0°-90°	3591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1639	1635	1636	1642	1646	156
15°	1559	1561	1568	1587	1595	440
25°	1407	1412	1423	1442	1449	646
35°	1166	1176	1179	1208	1227	726
45°	836	840	851	856	864	642
55°	511	499	498	481	491	459
65°	292	256	231	267	282	294
75°	166	149	124	173	189	177
85°	64	60	57	74	81	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1644.5	1644.5	1644.5	1644.5	1644.5
2.5°	1645.4	1641.2	1639.5	1646.2	1650.4
5°	1638.7	1635.4	1636.2	1642.0	1646.2
7.5°	1627.0	1624.5	1624.5	1632.8	1637.0
10°	1610.3	1609.5	1609.5	1619.5	1625.3
12.5°	1586.9	1587.7	1591.1	1604.4	1614.5
15°	1559.3	1561.0	1567.7	1586.9	1595.2
17.5°	1529.2	1529.2	1542.6	1557.6	1567.7
20°	1490.8	1493.3	1508.3	1525.1	1535.1
22.5°	1451.5	1455.7	1468.2	1487.4	1496.6
25°	1407.2	1412.2	1423.1	1441.5	1449.0
27.5°	1355.4	1362.1	1373.8	1387.2	1403.0
30°	1296.1	1306.1	1313.6	1332.0	1349.6
32.5°	1235.9	1245.1	1253.5	1272.7	1292.7
35°	1165.7	1175.8	1179.1	1207.5	1226.7
37.5°	1093.9	1098.0	1099.7	1128.1	1149.0
40°	1007.8	1016.1	1018.7	1041.2	1054.6
42.5°	925.1	928.4	933.4	950.1	966.0
45°	835.6	839.8	850.7	855.7	864.1
47.5°	742.1	754.6	767.1	751.2	752.1
50°	656.8	666.8	680.2	650.1	650.1
52.5°	580.8	585.8	586.6	561.6	566.6
55°	511.4	498.9	498.0	481.3	491.4
57.5°	442.1	425.3	419.5	414.5	426.2
60°	386.1	356.0	347.6	355.1	371.0
62.5°	340.1	301.7	285.8	305.0	319.2
65°	291.6	256.5	230.6	266.6	281.6
67.5°	254.0	220.6	187.2	238.2	249.0
70°	218.9	193.0	154.6	216.4	224.8
72.5°	190.5	170.5	133.7	195.5	205.6
75°	165.5	148.7	123.7	173.0	188.9
77.5°	145.4	127.0	115.3	149.6	168.8
80°	122.8	104.5	104.5	125.3	142.9
82.5°	96.9	81.9	84.4	101.9	114.5
85°	64.3	60.2	56.8	74.4	81.1
87.5°	32.6	33.4	30.1	38.4	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)