

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: P292446

Luminaire Tested: **22GR-LD5-40-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292446
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-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3726.0 lumens
Efficiency: N/A
Efficacy: 112.2 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

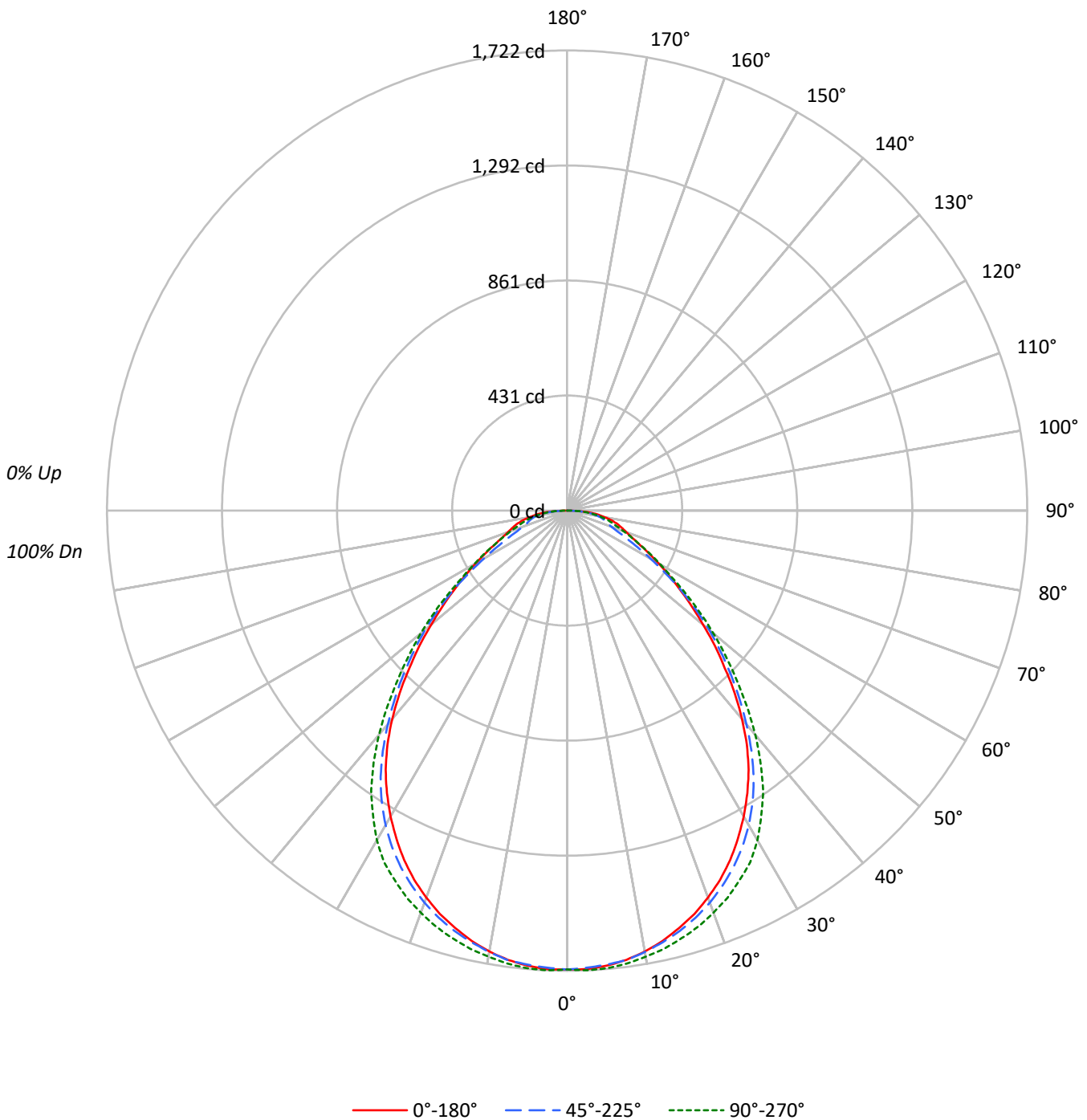
Input Watts (W): 33.201
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4622	4622	4622
5°	4618	4606	4644
10°	4579	4584	4631
15°	4506	4538	4615
20°	4413	4470	4585
25°	4285	4372	4532
30°	4106	4222	4424
35°	3890	3998	4201
40°	3577	3665	3848
45°	3177	3293	3412
50°	2775	2902	2990
55°	2413	2445	2535
60°	2123	1945	2165
65°	1886	1554	1897
70°	1852	1381	1750
75°	2023	1517	1788
80°	2221	1804	1912
85°	2655	2093	2146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	4.4
10°-20°	460.3	12.4
20°-30°	679.6	18.2
30°-40°	760.4	20.4
40°-50°	667.8	17.9
50°-60°	472.5	12.7
60°-70°	275.0	7.4
70°-80°	171.4	4.6
80°-90°	76.7	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°	1302.2	34.9
0°-40°	2062.6	55.4
0°-60°	3202.9	86.0
0°-90°	3726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1710	1705	1705	1714	1719	162
15°	1618	1621	1629	1646	1657	456
25°	1443	1449	1472	1507	1526	663
35°	1184	1189	1217	1254	1279	736
45°	835	844	865	886	896	646
55°	514	525	521	531	540	465
65°	296	273	244	266	298	300
75°	195	168	146	149	172	203
85°	86	90	68	66	70	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1717.5	1717.5	1717.5	1717.5	1717.5
2.5°	1717.5	1714.0	1712.3	1718.4	1721.8
5°	1709.7	1705.3	1705.3	1714.0	1719.2
7.5°	1695.8	1691.4	1696.7	1704.5	1709.7
10°	1675.8	1674.1	1677.5	1688.0	1694.9
12.5°	1649.7	1650.6	1654.1	1670.6	1679.3
15°	1617.6	1621.1	1628.9	1646.3	1656.7
17.5°	1582.8	1585.5	1597.6	1617.6	1632.4
20°	1541.1	1546.4	1561.1	1586.3	1601.1
22.5°	1495.1	1501.2	1519.4	1549.8	1568.1
25°	1443.0	1449.1	1472.5	1507.3	1526.4
27.5°	1383.9	1393.5	1419.5	1457.7	1483.8
30°	1321.4	1329.2	1358.7	1402.1	1423.9
32.5°	1254.5	1264.0	1291.8	1333.5	1352.6
35°	1184.1	1189.3	1217.1	1253.6	1278.8
37.5°	1104.2	1106.8	1132.8	1166.7	1189.3
40°	1018.2	1019.9	1043.4	1075.5	1095.5
42.5°	928.7	929.6	954.7	979.1	996.4
45°	834.9	844.4	865.3	886.1	896.5
47.5°	750.6	757.5	776.7	794.9	804.5
50°	662.8	680.2	693.3	702.8	714.1
52.5°	587.3	602.0	605.5	616.8	626.4
55°	514.3	524.7	521.2	530.8	540.4
57.5°	452.6	447.4	436.1	452.6	464.8
60°	394.4	380.5	361.4	384.0	402.2
62.5°	342.3	319.7	296.2	318.8	349.2
65°	296.2	272.8	244.1	265.8	298.0
67.5°	261.5	237.2	203.3	225.0	257.1
70°	235.4	210.2	175.5	193.7	222.4
72.5°	214.6	187.6	157.2	169.4	193.7
75°	194.6	167.7	145.9	149.4	172.0
77.5°	171.1	151.2	133.8	132.0	149.4
80°	143.3	137.3	116.4	113.8	123.4
82.5°	118.1	115.5	95.6	93.0	96.4
85°	86.0	89.5	67.8	66.0	69.5
87.5°	45.2	49.5	35.6	37.4	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)