

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: P292447

Luminaire Tested: **22GR-LD5-40-A125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292447
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3790.0 lumens
Efficiency: N/A
Efficacy: 112.3 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

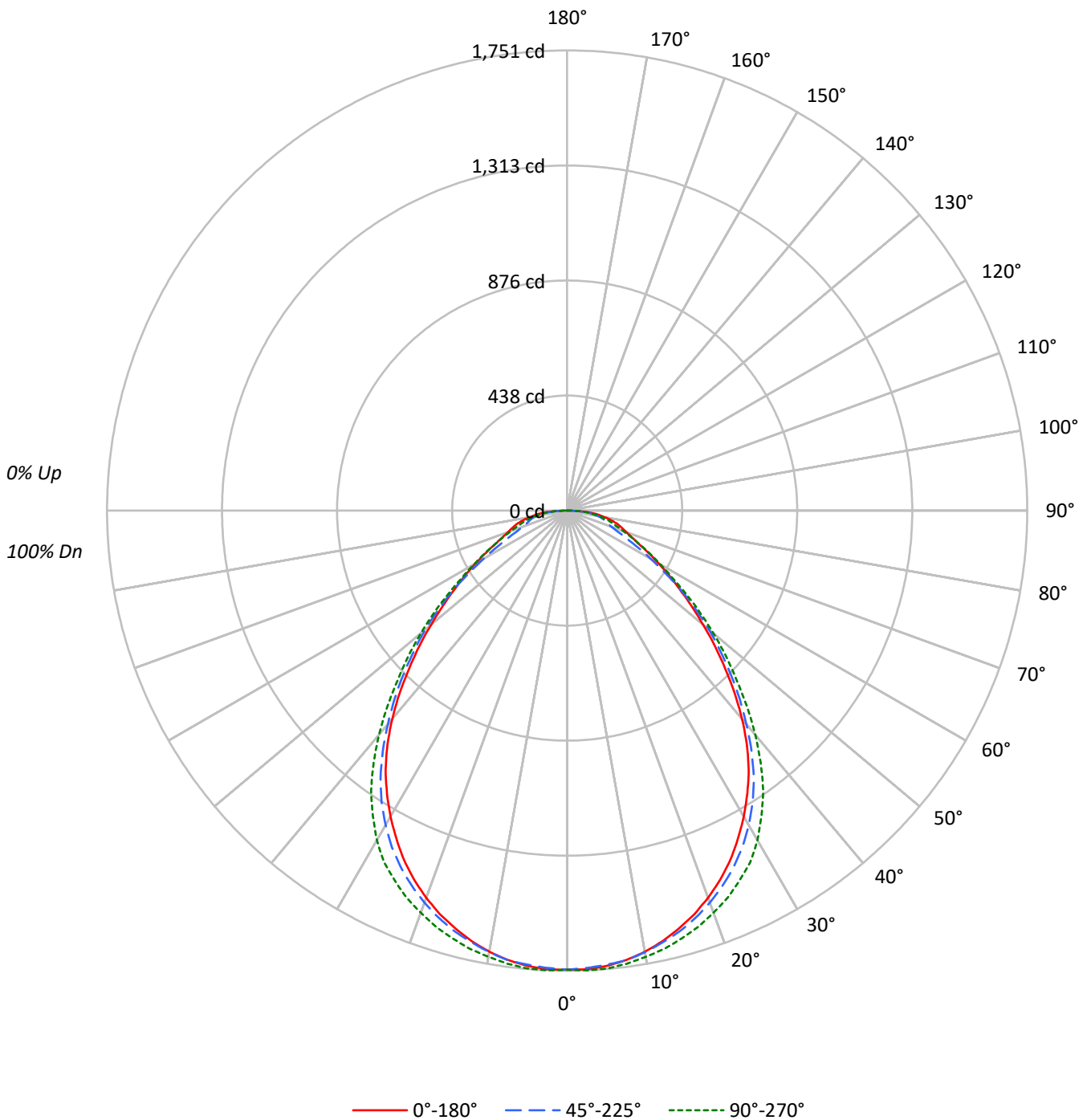
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	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	52	46	41	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	34	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	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4701	4701	4701
5°	4697	4686	4724
10°	4658	4663	4711
15°	4584	4616	4695
20°	4489	4547	4664
25°	4358	4447	4610
30°	4176	4294	4500
35°	3957	4067	4273
40°	3638	3728	3914
45°	3232	3349	3470
50°	2822	2952	3041
55°	2454	2487	2578
60°	2159	1978	2202
65°	1918	1581	1930
70°	1884	1404	1780
75°	2058	1544	1820
80°	2259	1835	1945
85°	2702	2127	2183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	4.4
10°-20°	468.2	12.4
20°-30°	691.2	18.2
30°-40°	773.5	20.4
40°-50°	679.2	17.9
50°-60°	480.6	12.7
60°-70°	279.8	7.4
70°-80°	174.4	4.6
80°-90°	78.0	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°	1324.6	34.9
0°-40°	2098.0	55.4
0°-60°	3257.9	86.0
0°-90°	3790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1747	1747	1747	1747	1747	
5°	1739	1735	1735	1744	1749	165
15°	1645	1649	1657	1674	1685	464
25°	1468	1474	1498	1533	1553	674
35°	1204	1210	1238	1275	1301	749
45°	849	859	880	901	912	657
55°	523	534	530	540	550	473
65°	301	278	248	270	303	306
75°	198	170	148	152	175	207
85°	88	91	69	67	71	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1747.0	1747.0	1747.0	1747.0	1747.0
2.5°	1747.0	1743.5	1741.7	1747.9	1751.4
5°	1739.0	1734.6	1734.6	1743.5	1748.8
7.5°	1724.9	1720.5	1725.8	1733.7	1739.0
10°	1704.6	1702.8	1706.4	1717.0	1724.0
12.5°	1678.1	1679.0	1682.5	1699.3	1708.1
15°	1645.4	1648.9	1656.9	1674.5	1685.1
17.5°	1610.0	1612.7	1625.1	1645.4	1660.4
20°	1567.6	1572.9	1587.9	1613.6	1628.6
22.5°	1520.8	1527.0	1545.5	1576.5	1595.0
25°	1467.8	1474.0	1497.8	1533.2	1552.6
27.5°	1407.7	1417.4	1443.9	1482.8	1509.3
30°	1344.1	1352.0	1382.0	1426.2	1448.3
32.5°	1276.0	1285.7	1314.0	1356.4	1375.9
35°	1204.4	1209.7	1238.0	1275.1	1300.8
37.5°	1123.1	1125.8	1152.3	1186.8	1209.7
40°	1035.7	1037.4	1061.3	1094.0	1114.3
42.5°	944.6	945.5	971.1	995.9	1013.6
45°	849.2	858.9	880.1	901.3	911.9
47.5°	763.5	770.6	790.0	808.6	818.3
50°	674.2	691.9	705.2	714.9	726.4
52.5°	597.4	612.4	615.9	627.4	637.1
55°	523.1	533.7	530.2	539.9	549.6
57.5°	460.4	455.1	443.6	460.4	472.8
60°	401.2	387.0	367.6	390.6	409.1
62.5°	348.2	325.2	301.3	324.3	355.2
65°	301.3	277.5	248.3	270.4	303.1
67.5°	266.0	241.2	206.8	228.9	261.6
70°	239.5	213.8	178.5	197.1	226.2
72.5°	218.3	190.9	159.9	172.3	197.1
75°	197.9	170.5	148.5	152.0	175.0
77.5°	174.1	153.8	136.1	134.3	152.0
80°	145.8	139.6	118.4	115.8	125.5
82.5°	120.2	117.5	97.2	94.6	98.1
85°	87.5	91.0	68.9	67.2	70.7
87.5°	46.0	50.4	36.2	38.0	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)