

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: P292449

Luminaire Tested: **22GR-LD5-43-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292449
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-LD5-43-A125-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3370.0 lumens
Efficiency: N/A
Efficacy: 93.6 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

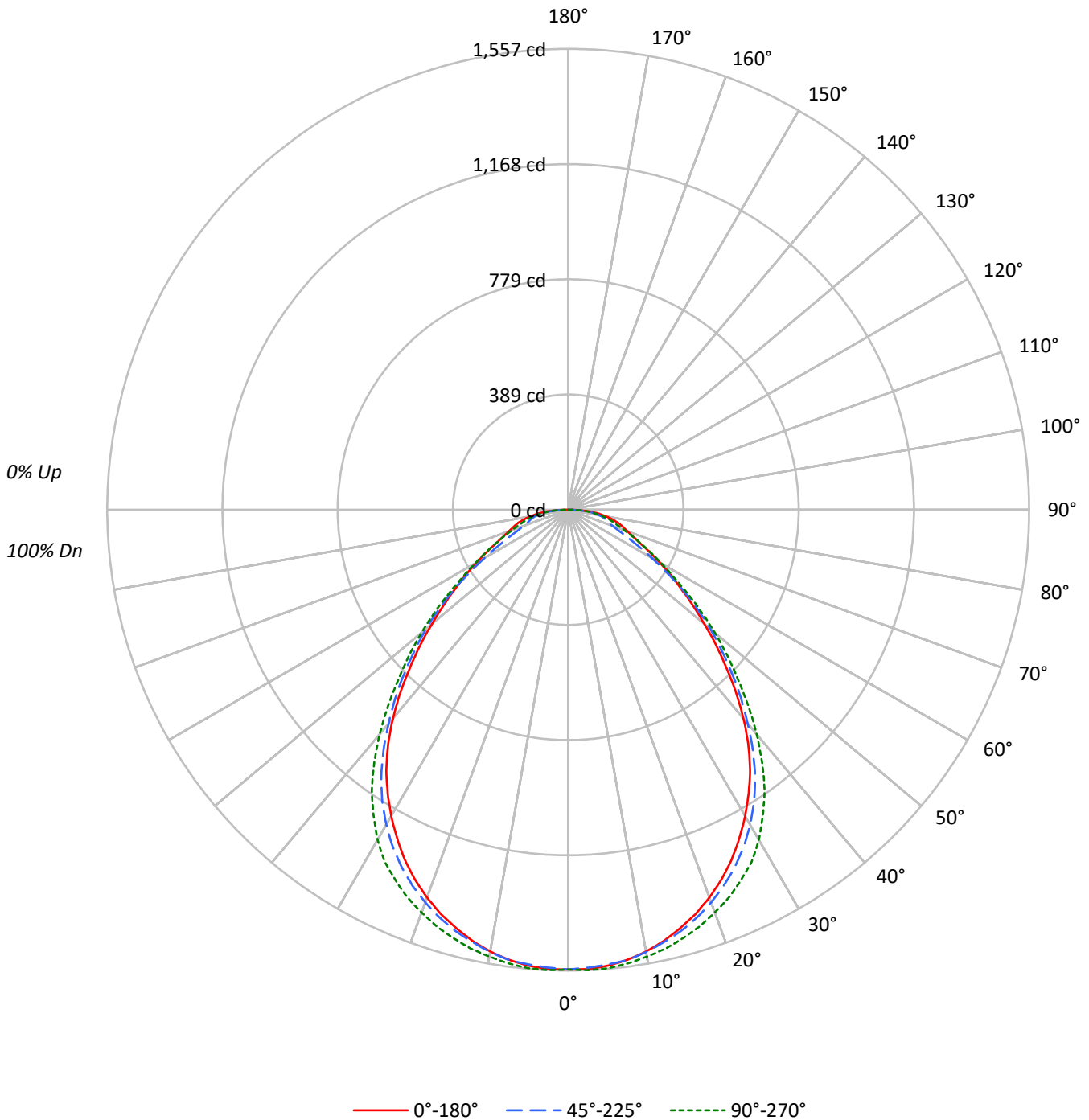
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292449

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P292449

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L93050-W2A1-U-3000K

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°	4180	4180	4180
5°	4177	4166	4200
10°	4142	4146	4189
15°	4076	4104	4174
20°	3992	4044	4147
25°	3875	3954	4099
30°	3714	3819	4002
35°	3518	3616	3800
40°	3235	3315	3481
45°	2874	2978	3086
50°	2510	2625	2704
55°	2183	2212	2293
60°	1920	1759	1958
65°	1706	1406	1716
70°	1675	1249	1582
75°	1830	1372	1618
80°	2008	1632	1729
85°	2402	1893	1942



TEST NUMBER: P292449

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	4.4
10°-20°	416.3	12.4
20°-30°	614.6	18.2
30°-40°	687.8	20.4
40°-50°	604.0	17.9
50°-60°	427.4	12.7
60°-70°	248.8	7.4
70°-80°	155.0	4.6
80°-90°	69.4	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°	1177.8	34.9
0°-40°	1865.5	55.4
0°-60°	2896.9	86.0
0°-90°	3370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1546	1542	1542	1550	1555	147
15°	1463	1466	1473	1489	1498	412
25°	1305	1311	1332	1363	1380	599
35°	1071	1076	1101	1134	1157	666
45°	755	764	783	802	811	584
55°	465	475	471	480	489	420
65°	268	247	221	240	270	272
75°	176	152	132	135	156	184
85°	78	81	61	60	63	79
90°	0	0	0	0	0	



TEST NUMBER: P292449

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.4	1553.4	1553.4	1553.4	1553.4
2.5°	1553.4	1550.3	1548.7	1554.2	1557.3
5°	1546.3	1542.4	1542.4	1550.3	1555.0
7.5°	1533.8	1529.8	1534.5	1541.6	1546.3
10°	1515.7	1514.1	1517.3	1526.7	1533.0
12.5°	1492.1	1492.9	1496.0	1511.0	1518.8
15°	1463.0	1466.2	1473.3	1489.0	1498.4
17.5°	1431.6	1434.0	1445.0	1463.0	1476.4
20°	1393.9	1398.6	1412.0	1434.8	1448.1
22.5°	1352.3	1357.8	1374.3	1401.8	1418.3
25°	1305.1	1310.6	1331.8	1363.3	1380.5
27.5°	1251.7	1260.3	1283.9	1318.5	1342.0
30°	1195.1	1202.2	1228.9	1268.2	1287.8
32.5°	1134.6	1143.2	1168.4	1206.1	1223.4
35°	1071.0	1075.7	1100.8	1133.8	1156.6
37.5°	998.7	1001.0	1024.6	1055.2	1075.7
40°	920.9	922.5	943.7	972.7	990.8
42.5°	840.0	840.7	863.5	885.5	901.2
45°	755.1	763.7	782.6	801.5	810.9
47.5°	678.9	685.2	702.4	718.9	727.6
50°	599.5	615.2	627.0	635.7	645.9
52.5°	531.2	544.5	547.7	557.9	566.5
55°	465.2	474.6	471.4	480.1	488.7
57.5°	409.4	404.7	394.4	409.4	420.4
60°	356.7	344.2	326.9	347.3	363.8
62.5°	309.6	289.2	267.9	288.4	315.9
65°	267.9	246.7	220.8	240.4	269.5
67.5°	236.5	214.5	183.9	203.5	232.6
70°	212.9	190.1	158.7	175.2	201.1
72.5°	194.1	169.7	142.2	153.2	175.2
75°	176.0	151.6	132.0	135.1	155.6
77.5°	154.8	136.7	121.0	119.4	135.1
80°	129.6	124.1	105.3	102.9	111.6
82.5°	106.9	104.5	86.4	84.1	87.2
85°	77.8	80.9	61.3	59.7	62.9
87.5°	40.9	44.8	32.2	33.8	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)