

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: P292338

Luminaire Tested: **22GR-LD5-32-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292338
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-LD5-32-A125-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3368.0 lumens
Efficiency: N/A
Efficacy: 134.1 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

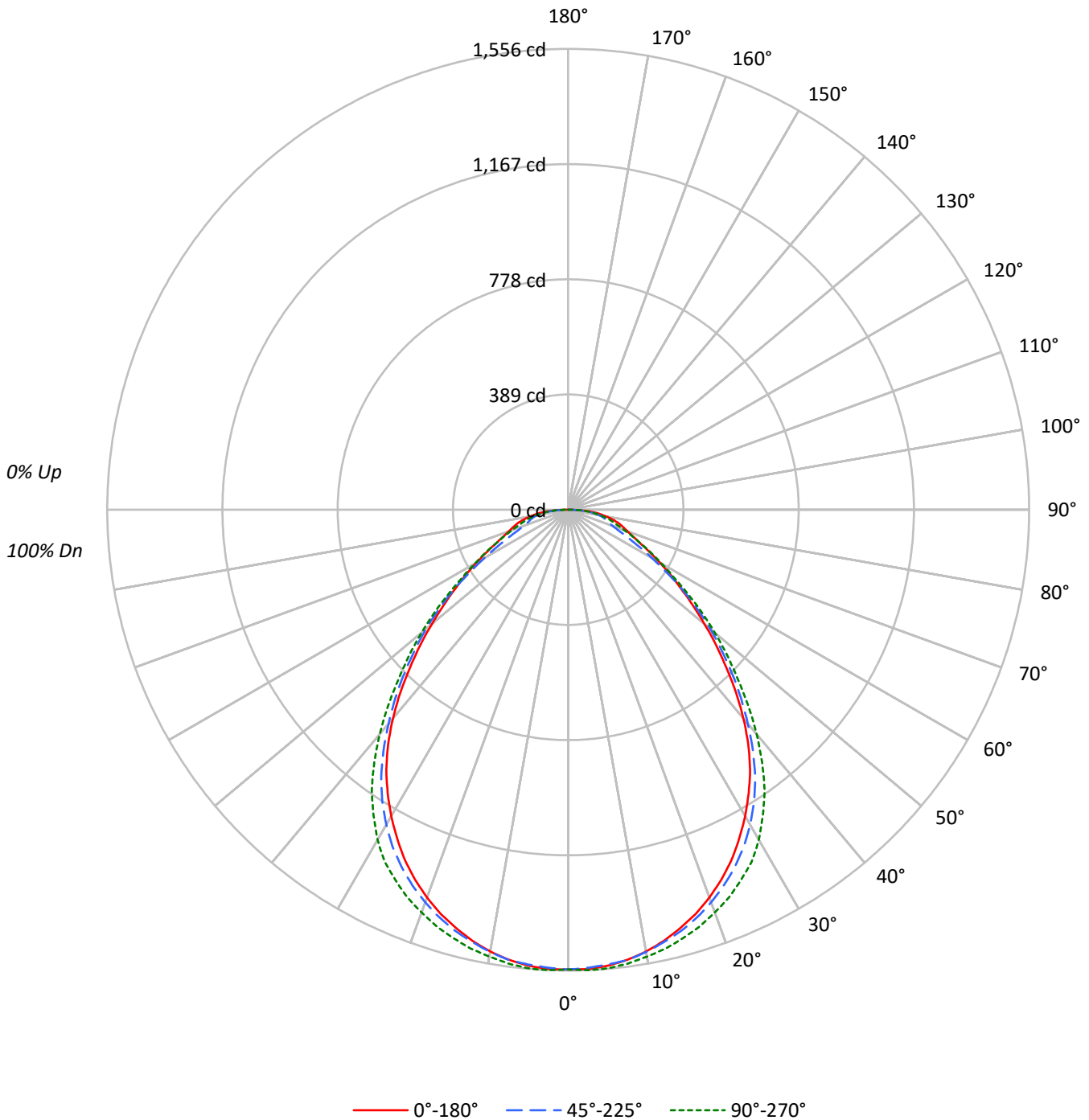
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4178	4178	4178
5°	4175	4164	4198
10°	4139	4144	4186
15°	4074	4102	4172
20°	3989	4041	4145
25°	3873	3952	4097
30°	3711	3816	3999
35°	3516	3614	3797
40°	3233	3313	3478
45°	2872	2976	3084
50°	2509	2623	2702
55°	2181	2211	2291
60°	1919	1758	1957
65°	1705	1405	1715
70°	1674	1248	1581
75°	1829	1371	1617
80°	2008	1630	1728
85°	2399	1893	1939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	4.4
10°-20°	416.1	12.4
20°-30°	614.3	18.2
30°-40°	687.3	20.4
40°-50°	603.6	17.9
50°-60°	427.1	12.7
60°-70°	248.6	7.4
70°-80°	154.9	4.6
80°-90°	69.3	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°	1177.1	34.9
0°-40°	1864.4	55.4
0°-60°	2895.1	86.0
0°-90°	3368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1545	1542	1542	1549	1554	147
15°	1462	1465	1472	1488	1498	412
25°	1304	1310	1331	1362	1380	599
35°	1070	1075	1100	1133	1156	666
45°	755	763	782	801	810	584
55°	465	474	471	480	488	420
65°	268	247	221	240	269	272
75°	176	152	132	135	156	184
85°	78	81	61	60	63	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.5	1552.5	1552.5	1552.5	1552.5
2.5°	1552.5	1549.3	1547.8	1553.3	1556.4
5°	1545.4	1541.5	1541.5	1549.3	1554.1
7.5°	1532.8	1528.9	1533.6	1540.7	1545.4
10°	1514.8	1513.2	1516.4	1525.8	1532.1
12.5°	1491.2	1492.0	1495.2	1510.1	1517.9
15°	1462.2	1465.3	1472.4	1488.1	1497.5
17.5°	1430.8	1433.1	1444.1	1462.2	1475.5
20°	1393.1	1397.8	1411.1	1433.9	1447.3
22.5°	1351.5	1356.9	1373.4	1400.9	1417.4
25°	1304.3	1309.8	1331.0	1362.4	1379.7
27.5°	1250.9	1259.6	1283.1	1317.7	1341.2
30°	1194.4	1201.5	1228.2	1267.4	1287.1
32.5°	1133.9	1142.6	1167.7	1205.4	1222.7
35°	1070.3	1075.0	1100.2	1133.1	1155.9
37.5°	998.1	1000.4	1024.0	1054.6	1075.0
40°	920.3	921.9	943.1	972.2	990.2
42.5°	839.5	840.2	863.0	885.0	900.7
45°	754.6	763.3	782.1	801.0	810.4
47.5°	678.5	684.8	702.0	718.5	727.2
50°	599.2	614.9	626.6	635.3	645.5
52.5°	530.8	544.2	547.3	557.5	566.2
55°	464.9	474.3	471.2	479.8	488.4
57.5°	409.1	404.4	394.2	409.1	420.1
60°	356.5	343.9	326.7	347.1	363.6
62.5°	309.4	289.0	267.8	288.2	315.7
65°	267.8	246.6	220.7	240.3	269.3
67.5°	236.4	214.4	183.8	203.4	232.4
70°	212.8	190.0	158.6	175.1	201.0
72.5°	194.0	169.6	142.1	153.1	175.1
75°	175.9	151.6	131.9	135.1	155.5
77.5°	154.7	136.6	120.9	119.4	135.1
80°	129.6	124.1	105.2	102.9	111.5
82.5°	106.8	104.4	86.4	84.0	87.2
85°	77.7	80.9	61.3	59.7	62.8
87.5°	40.8	44.8	32.2	33.8	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)