

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: P292509

Luminaire Tested: **22GR-LD5-43-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292509
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-L92765-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: 3531.0 lumens
Efficiency: N/A
Efficacy: 101.5 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

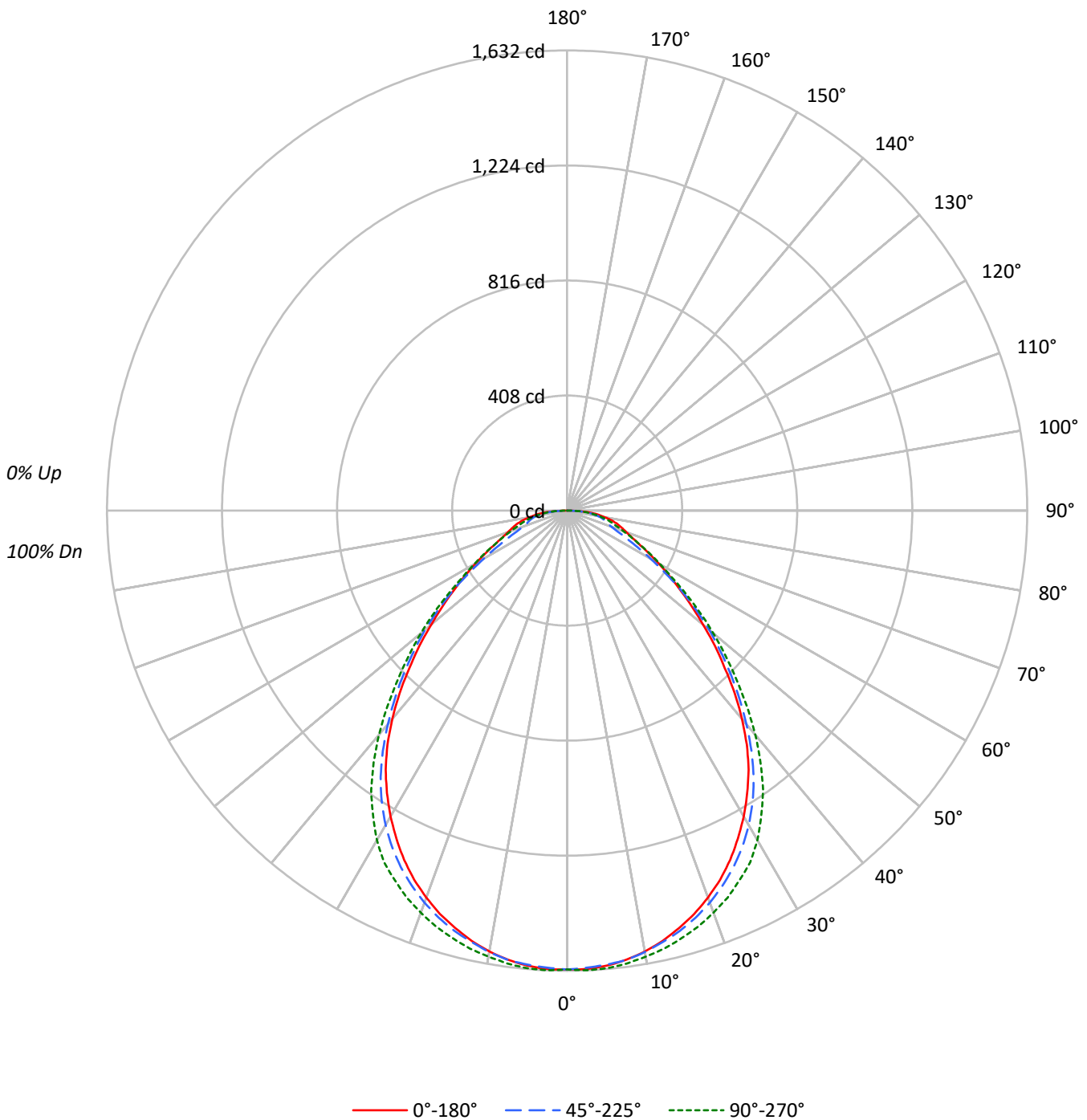
Input Watts (W): 34.782
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4380	4380	4380
5°	4377	4366	4401
10°	4339	4344	4389
15°	4271	4300	4374
20°	4182	4237	4345
25°	4060	4143	4295
30°	3891	4001	4193
35°	3686	3789	3981
40°	3390	3473	3647
45°	3011	3121	3233
50°	2630	2750	2833
55°	2287	2318	2403
60°	2012	1843	2052
65°	1787	1473	1798
70°	1755	1308	1659
75°	1917	1438	1695
80°	2104	1709	1812
85°	2516	1982	2035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	4.4
10°-20°	436.2	12.4
20°-30°	644.0	18.2
30°-40°	720.6	20.4
40°-50°	632.8	17.9
50°-60°	447.8	12.7
60°-70°	260.6	7.4
70°-80°	162.4	4.6
80°-90°	72.7	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°	1234.0	34.9
0°-40°	1954.7	55.4
0°-60°	3035.3	86.0
0°-90°	3531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1620	1616	1616	1624	1629	154
15°	1533	1536	1544	1560	1570	432
25°	1368	1373	1396	1428	1446	628
35°	1122	1127	1153	1188	1212	698
45°	791	800	820	840	850	612
55°	487	497	494	503	512	441
65°	281	258	231	252	282	285
75°	184	159	138	142	163	193
85°	82	85	64	63	66	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.6	1627.6	1627.6	1627.6	1627.6
2.5°	1627.6	1624.3	1622.7	1628.4	1631.7
5°	1620.2	1616.1	1616.1	1624.3	1629.3
7.5°	1607.0	1602.9	1607.9	1615.3	1620.2
10°	1588.1	1586.5	1589.7	1599.6	1606.2
12.5°	1563.4	1564.2	1567.5	1583.2	1591.4
15°	1532.9	1536.2	1543.6	1560.1	1570.0
17.5°	1500.0	1502.5	1514.0	1532.9	1546.9
20°	1460.5	1465.4	1479.4	1503.3	1517.3
22.5°	1416.9	1422.6	1439.9	1468.7	1486.0
25°	1367.5	1373.2	1395.5	1428.4	1446.5
27.5°	1311.5	1320.5	1345.2	1381.5	1406.2
30°	1252.2	1259.6	1287.6	1328.8	1349.3
32.5°	1188.8	1197.9	1224.2	1263.7	1281.8
35°	1122.1	1127.1	1153.4	1188.0	1211.9
37.5°	1046.4	1048.9	1073.6	1105.7	1127.1
40°	964.9	966.5	988.8	1019.2	1038.2
42.5°	880.1	880.9	904.8	927.8	944.3
45°	791.2	800.2	820.0	839.7	849.6
47.5°	711.3	717.9	736.0	753.3	762.4
50°	628.2	644.6	657.0	666.0	676.7
52.5°	556.5	570.5	573.8	584.5	593.6
55°	487.4	497.3	494.0	503.0	512.1
57.5°	428.9	424.0	413.3	428.9	440.5
60°	373.8	360.6	342.5	363.9	381.2
62.5°	324.4	303.0	280.7	302.1	331.0
65°	280.7	258.5	231.3	251.9	282.4
67.5°	247.8	224.8	192.6	213.2	243.7
70°	223.1	199.2	166.3	183.6	210.8
72.5°	203.3	177.8	149.0	160.5	183.6
75°	184.4	158.9	138.3	141.6	163.0
77.5°	162.2	143.2	126.8	125.1	141.6
80°	135.8	130.1	110.3	107.8	116.9
82.5°	112.0	109.5	90.6	88.1	91.4
85°	81.5	84.8	64.2	62.6	65.9
87.5°	42.8	46.9	33.8	35.4	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)