

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: P292401

Luminaire Tested: **22GR-LD5-40-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292401
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-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3724.0 lumens
Efficiency: N/A
Efficacy: 115.1 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

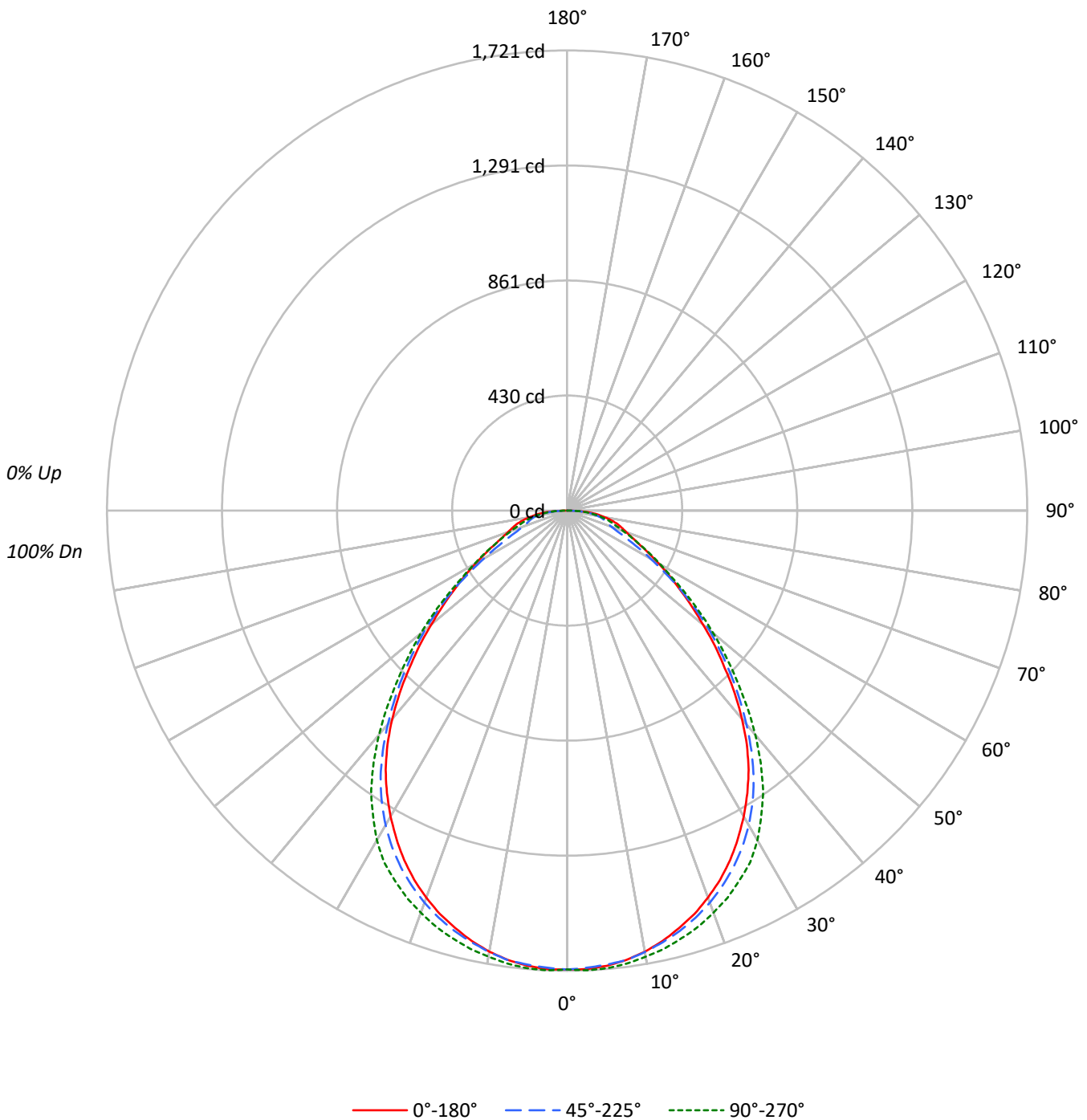
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4619	4619	4619
5°	4616	4604	4642
10°	4577	4581	4629
15°	4504	4535	4613
20°	4411	4468	4582
25°	4282	4370	4530
30°	4103	4220	4422
35°	3888	3996	4199
40°	3575	3663	3846
45°	3175	3291	3410
50°	2774	2901	2988
55°	2411	2444	2534
60°	2122	1944	2164
65°	1885	1554	1896
70°	1851	1380	1749
75°	2022	1517	1787
80°	2221	1802	1911
85°	2655	2090	2146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	4.4
10°-20°	460.1	12.4
20°-30°	679.2	18.2
30°-40°	760.0	20.4
40°-50°	667.4	17.9
50°-60°	472.3	12.7
60°-70°	274.9	7.4
70°-80°	171.3	4.6
80°-90°	76.6	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°	1301.5	34.9
0°-40°	2061.5	55.4
0°-60°	3201.2	86.0
0°-90°	3724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1717	1717	1717	1717	1717	
5°	1709	1704	1704	1713	1718	162
15°	1617	1620	1628	1645	1656	456
25°	1442	1448	1472	1506	1526	662
35°	1184	1189	1216	1253	1278	736
45°	834	844	865	886	896	645
55°	514	524	521	530	540	465
65°	296	273	244	266	298	300
75°	194	168	146	149	172	203
85°	86	89	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°	1716.6	1716.6	1716.6	1716.6	1716.6
2.5°	1716.6	1713.1	1711.4	1717.4	1720.9
5°	1708.8	1704.4	1704.4	1713.1	1718.3
7.5°	1694.9	1690.5	1695.7	1703.6	1708.8
10°	1674.9	1673.2	1676.6	1687.1	1694.0
12.5°	1648.9	1649.7	1653.2	1669.7	1678.4
15°	1616.7	1620.2	1628.0	1645.4	1655.8
17.5°	1582.0	1584.6	1596.8	1616.7	1631.5
20°	1540.3	1545.5	1560.3	1585.5	1600.2
22.5°	1494.3	1500.4	1518.6	1549.0	1567.2
25°	1442.2	1448.3	1471.7	1506.5	1525.6
27.5°	1383.2	1392.7	1418.8	1457.0	1483.0
30°	1320.6	1328.5	1358.0	1401.4	1423.1
32.5°	1253.8	1263.3	1291.1	1332.8	1351.9
35°	1183.5	1188.7	1216.5	1252.9	1278.1
37.5°	1103.6	1106.2	1132.2	1166.1	1188.7
40°	1017.6	1019.4	1042.8	1074.9	1094.9
42.5°	928.2	929.1	954.2	978.5	995.9
45°	834.4	844.0	864.8	885.6	896.1
47.5°	750.2	757.1	776.2	794.5	804.0
50°	662.5	679.9	692.9	702.4	713.7
52.5°	587.0	601.7	605.2	616.5	626.0
55°	514.0	524.4	521.0	530.5	540.1
57.5°	452.4	447.2	435.9	452.4	464.5
60°	394.2	380.3	361.2	383.8	402.0
62.5°	342.1	319.5	296.1	318.7	349.0
65°	296.1	272.6	244.0	265.7	297.8
67.5°	261.4	237.0	203.2	224.9	257.0
70°	235.3	210.1	175.4	193.6	222.3
72.5°	214.5	187.5	157.2	169.3	193.6
75°	194.5	167.6	145.9	149.3	171.9
77.5°	171.1	151.1	133.7	132.0	149.3
80°	143.3	137.2	116.3	113.7	123.3
82.5°	118.1	115.5	95.5	92.9	96.4
85°	86.0	89.4	67.7	66.0	69.5
87.5°	45.2	49.5	35.6	37.3	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)