

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: P292215

Luminaire Tested: **22GR-LD5-43-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-A-UNV-L82765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4098.0 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

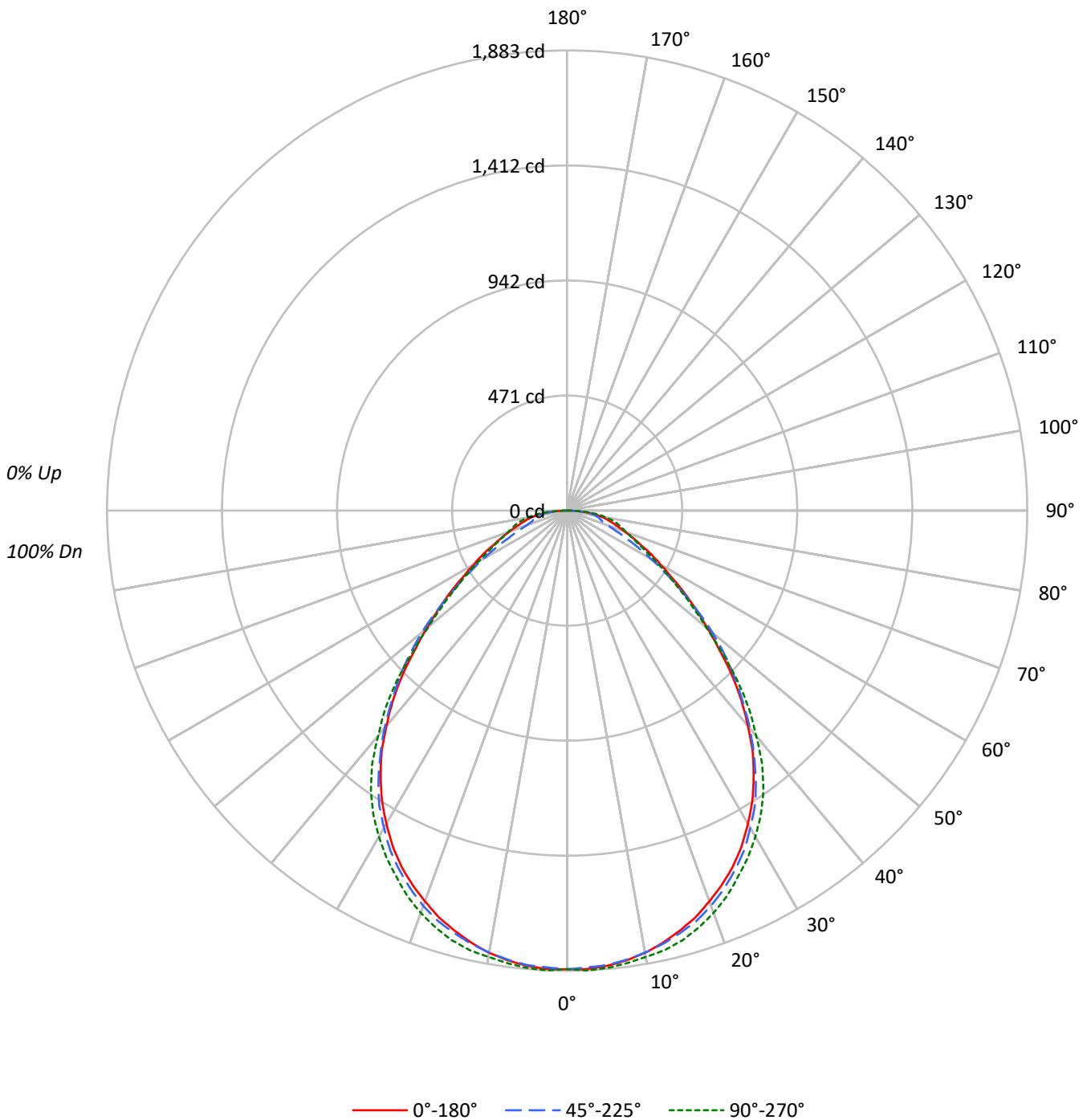
Input Watts (W): 34.875
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	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	53	46	42	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	35	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	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5050	5050	5050
5°	5052	5044	5075
10°	5021	5019	5068
15°	4958	4984	5072
20°	4872	4929	5017
25°	4768	4822	4910
30°	4596	4658	4786
35°	4370	4420	4599
40°	4040	4084	4228
45°	3629	3694	3752
50°	3138	3250	3106
55°	2738	2667	2631
60°	2371	2135	2279
65°	2119	1676	2046
70°	1965	1388	2018
75°	1963	1467	2241
80°	2173	1847	2528
85°	2266	2001	2856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	4.3
10°-20°	505.8	12.3
20°-30°	748.1	18.3
30°-40°	844.2	20.6
40°-50°	744.2	18.2
50°-60°	510.5	12.5
60°-70°	301.2	7.4
70°-80°	188.0	4.6
80°-90°	78.4	1.9
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°	1431.5	34.9
0°-40°	2275.7	55.5
0°-60°	3530.4	86.1
0°-90°	4098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1877	1877	1877	1877	1877	
5°	1870	1866	1867	1874	1879	177
15°	1780	1781	1789	1811	1820	502
25°	1606	1612	1624	1645	1654	738
35°	1330	1342	1346	1378	1400	829
45°	954	958	971	976	986	733
55°	584	569	568	549	561	523
65°	333	293	263	304	321	335
75°	189	170	141	197	216	202
85°	73	69	65	85	92	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1877.7	1872.9	1871.0	1878.6	1883.4
5°	1870.1	1866.2	1867.2	1873.9	1878.6
7.5°	1856.7	1853.8	1853.8	1863.4	1868.2
10°	1837.6	1836.7	1836.7	1848.1	1854.8
12.5°	1810.9	1811.9	1815.7	1831.0	1842.4
15°	1779.5	1781.4	1789.0	1810.9	1820.5
17.5°	1745.1	1745.1	1760.4	1777.6	1789.0
20°	1701.3	1704.1	1721.3	1740.4	1751.8
22.5°	1656.4	1661.2	1675.5	1697.5	1707.9
25°	1605.9	1611.6	1624.0	1645.0	1653.6
27.5°	1546.8	1554.4	1567.8	1583.0	1601.1
30°	1479.1	1490.5	1499.1	1520.1	1540.1
32.5°	1410.4	1420.9	1430.4	1452.4	1475.3
35°	1330.3	1341.8	1345.6	1378.0	1399.9
37.5°	1248.3	1253.1	1255.0	1287.4	1311.2
40°	1150.1	1159.6	1162.5	1188.2	1203.5
42.5°	1055.7	1059.5	1065.2	1084.3	1102.4
45°	953.6	958.4	970.8	976.5	986.0
47.5°	846.8	861.1	875.4	857.3	858.3
50°	749.5	761.0	776.3	741.9	741.9
52.5°	662.8	668.5	669.4	640.8	646.6
55°	583.6	569.3	568.4	549.3	560.7
57.5°	504.5	485.4	478.7	473.0	486.3
60°	440.6	406.2	396.7	405.3	423.4
62.5°	388.1	344.3	326.1	348.1	364.3
65°	332.8	292.8	263.2	304.2	321.4
67.5°	289.9	251.8	213.6	271.8	284.2
70°	249.8	220.3	176.4	247.0	256.5
72.5°	217.4	194.5	152.6	223.1	234.6
75°	188.8	169.7	141.1	197.4	215.5
77.5°	165.9	145.0	131.6	170.7	192.6
80°	140.2	119.2	119.2	143.0	163.1
82.5°	110.6	93.5	96.3	116.3	130.6
85°	73.4	68.7	64.8	84.9	92.5
87.5°	37.2	38.1	34.3	43.9	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)