

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: P292149

Luminaire Tested: **22GR-LD5-36-A-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292149
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-LD5-36-A-UNV-L83050-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3823.0 lumens
Efficiency: N/A
Efficacy: 129.7 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

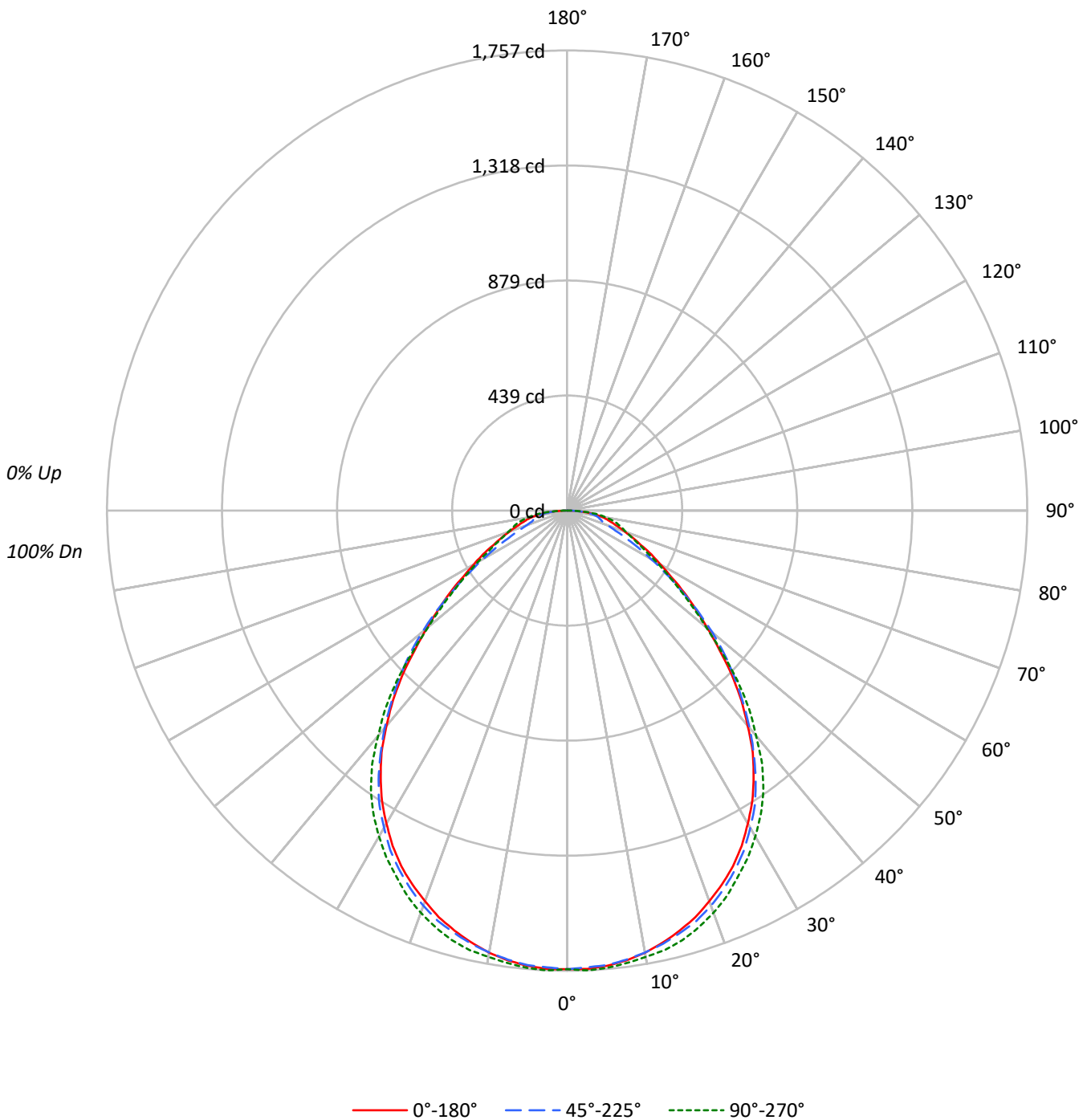
Input Watts (W): 29.481
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4711	4711	4711
5°	4713	4705	4734
10°	4684	4682	4728
15°	4625	4649	4731
20°	4545	4598	4680
25°	4448	4498	4580
30°	4287	4346	4465
35°	4077	4124	4290
40°	3769	3810	3944
45°	3385	3446	3501
50°	2928	3032	2897
55°	2555	2487	2454
60°	2212	1992	2126
65°	1977	1563	1909
70°	1834	1295	1883
75°	1831	1369	2091
80°	2027	1723	2357
85°	2115	1868	2665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	4.3
10°-20°	471.9	12.3
20°-30°	697.9	18.3
30°-40°	787.5	20.6
40°-50°	694.2	18.2
50°-60°	476.2	12.5
60°-70°	281.0	7.4
70°-80°	175.4	4.6
80°-90°	73.1	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°	1335.4	34.9
0°-40°	2123.0	55.5
0°-60°	3293.5	86.1
0°-90°	3823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1751	1751	1751	1751	1751	
5°	1745	1741	1742	1748	1753	166
15°	1660	1662	1669	1689	1698	468
25°	1498	1504	1515	1535	1543	688
35°	1241	1252	1255	1286	1306	773
45°	890	894	906	911	920	683
55°	544	531	530	512	523	488
65°	310	273	246	284	300	313
75°	176	158	132	184	201	189
85°	68	64	60	79	86	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1750.8	1750.8	1750.8	1750.8	1750.8
2.5°	1751.7	1747.2	1745.5	1752.6	1757.0
5°	1744.6	1741.0	1741.9	1748.1	1752.6
7.5°	1732.1	1729.4	1729.4	1738.3	1742.8
10°	1714.3	1713.4	1713.4	1724.1	1730.3
12.5°	1689.4	1690.3	1693.9	1708.1	1718.8
15°	1660.1	1661.8	1668.9	1689.4	1698.3
17.5°	1628.0	1628.0	1642.3	1658.3	1668.9
20°	1587.1	1589.8	1605.8	1623.6	1634.3
22.5°	1545.3	1549.7	1563.1	1583.5	1593.3
25°	1498.1	1503.5	1515.0	1534.6	1542.6
27.5°	1443.0	1450.1	1462.6	1476.8	1493.7
30°	1379.8	1390.5	1398.5	1418.1	1436.8
32.5°	1315.8	1325.6	1334.4	1354.9	1376.3
35°	1241.0	1251.7	1255.3	1285.5	1306.0
37.5°	1164.5	1169.0	1170.8	1201.0	1223.2
40°	1072.9	1081.8	1084.5	1108.5	1122.7
42.5°	984.8	988.4	993.7	1011.5	1028.4
45°	889.6	894.1	905.6	911.0	919.9
47.5°	790.0	803.3	816.7	799.8	800.7
50°	699.3	709.9	724.2	692.1	692.1
52.5°	618.3	623.6	624.5	597.8	603.2
55°	544.5	531.1	530.2	512.4	523.1
57.5°	470.6	452.8	446.6	441.3	453.7
60°	411.0	379.0	370.1	378.1	395.0
62.5°	362.1	321.2	304.3	324.7	339.8
65°	310.5	273.1	245.5	283.8	299.8
67.5°	270.4	234.9	199.3	253.5	265.1
70°	233.1	205.5	164.6	230.4	239.3
72.5°	202.8	181.5	142.3	208.2	218.8
75°	176.1	158.4	131.7	184.2	201.1
77.5°	154.8	135.2	122.8	159.2	179.7
80°	130.8	111.2	111.2	133.4	152.1
82.5°	103.2	87.2	89.9	108.5	121.9
85°	68.5	64.1	60.5	79.2	86.3
87.5°	34.7	35.6	32.0	40.9	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)