

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: P292146

Luminaire Tested: **22GR-LD5-36-A-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292146
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-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3607.0 lumens
Efficiency: N/A
Efficacy: 128.4 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

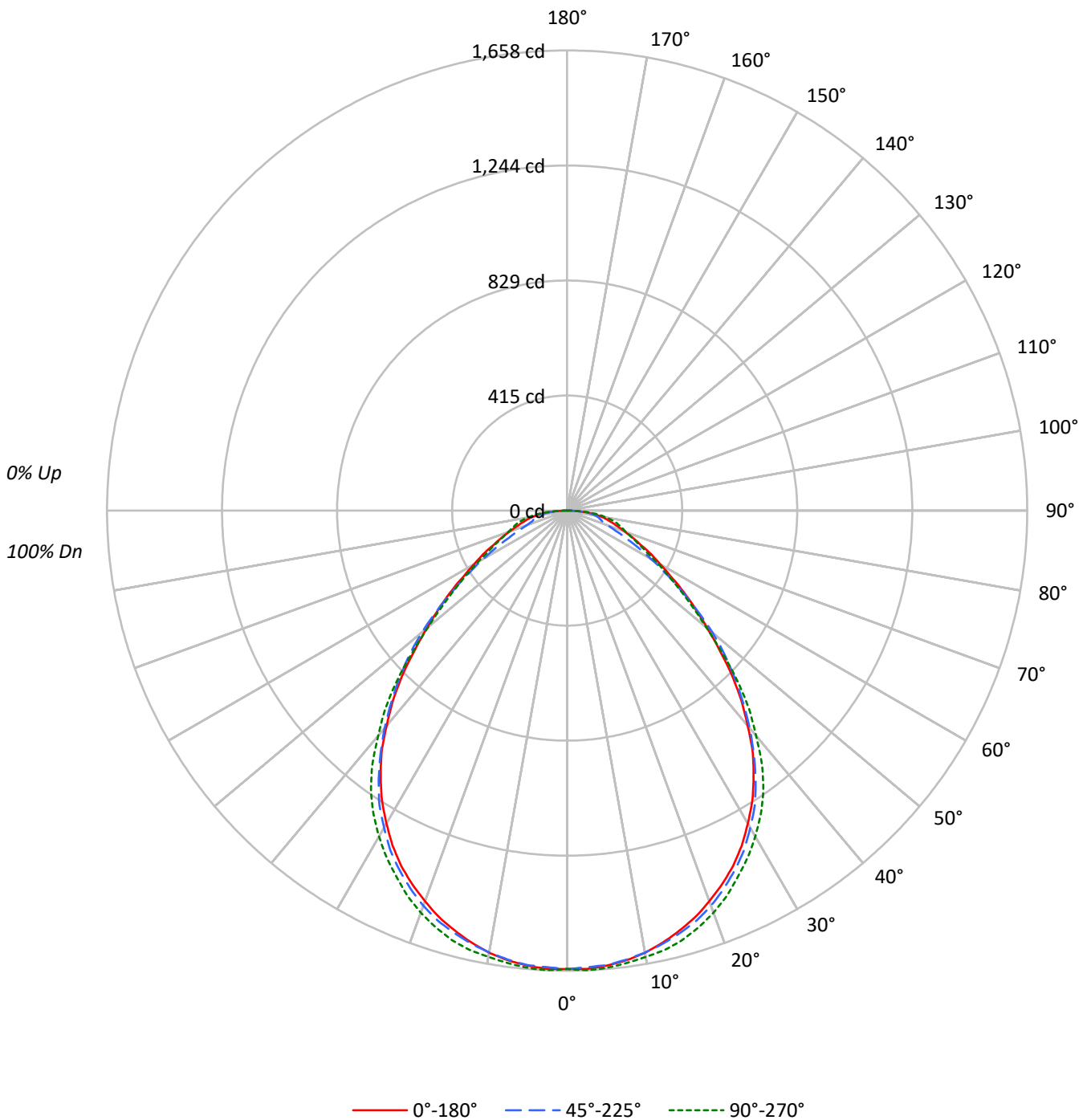
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4445	4445	4445
5°	4446	4440	4467
10°	4420	4417	4461
15°	4364	4387	4464
20°	4288	4339	4416
25°	4197	4244	4322
30°	4045	4100	4212
35°	3846	3891	4048
40°	3556	3594	3721
45°	3194	3252	3303
50°	2762	2860	2734
55°	2410	2347	2315
60°	2087	1879	2006
65°	1865	1475	1801
70°	1730	1222	1777
75°	1728	1291	1972
80°	1912	1626	2224
85°	1995	1763	2513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	4.3
10°-20°	445.2	12.3
20°-30°	658.5	18.3
30°-40°	743.0	20.6
40°-50°	655.0	18.2
50°-60°	449.3	12.5
60°-70°	265.2	7.4
70°-80°	165.4	4.6
80°-90°	69.0	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°	1260.0	34.9
0°-40°	2003.0	55.5
0°-60°	3107.4	86.1
0°-90°	3607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1646	1643	1644	1649	1654	156
15°	1566	1568	1575	1594	1602	441
25°	1414	1418	1429	1448	1456	649
35°	1171	1181	1184	1213	1232	730
45°	839	844	854	860	868	645
55°	514	501	500	484	494	461
65°	293	258	232	268	283	295
75°	166	149	124	174	190	178
85°	65	60	57	75	81	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1652.7	1648.5	1646.8	1653.6	1657.8
5°	1646.0	1642.6	1643.5	1649.4	1653.6
7.5°	1634.2	1631.7	1631.7	1640.1	1644.3
10°	1617.5	1616.6	1616.6	1626.7	1632.6
12.5°	1594.0	1594.8	1598.2	1611.6	1621.7
15°	1566.3	1567.9	1574.7	1594.0	1602.4
17.5°	1536.0	1536.0	1549.5	1564.6	1574.7
20°	1497.4	1499.9	1515.1	1531.8	1541.9
22.5°	1458.0	1462.2	1474.8	1494.1	1503.3
25°	1413.5	1418.5	1429.4	1447.9	1455.5
27.5°	1361.5	1368.2	1379.9	1393.4	1409.3
30°	1301.9	1311.9	1319.5	1338.0	1355.6
32.5°	1241.4	1250.7	1259.1	1278.4	1298.5
35°	1170.9	1181.0	1184.3	1212.9	1232.2
37.5°	1098.7	1102.9	1104.6	1133.1	1154.1
40°	1012.3	1020.7	1023.2	1045.9	1059.3
42.5°	929.2	932.5	937.6	954.4	970.3
45°	839.4	843.6	854.5	859.5	867.9
47.5°	745.4	757.9	770.5	754.6	755.4
50°	659.7	669.8	683.2	653.0	653.0
52.5°	583.4	588.4	589.2	564.1	569.1
55°	513.7	501.1	500.3	483.5	493.5
57.5°	444.0	427.2	421.4	416.3	428.1
60°	387.8	357.6	349.2	356.7	372.7
62.5°	341.6	303.0	287.1	306.4	320.6
65°	292.9	257.7	231.7	267.8	282.9
67.5°	255.2	221.6	188.0	239.2	250.1
70°	219.9	193.9	155.3	217.4	225.8
72.5°	191.4	171.2	134.3	196.4	206.5
75°	166.2	149.4	124.2	173.7	189.7
77.5°	146.0	127.6	115.8	150.2	169.6
80°	123.4	104.9	104.9	125.9	143.5
82.5°	97.4	82.3	84.8	102.4	115.0
85°	64.6	60.4	57.1	74.7	81.4
87.5°	32.7	33.6	30.2	38.6	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)