

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: P292313

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292313  
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-L92765-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3537.0 lumens  
Efficiency: N/A  
Efficacy: 101.7 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

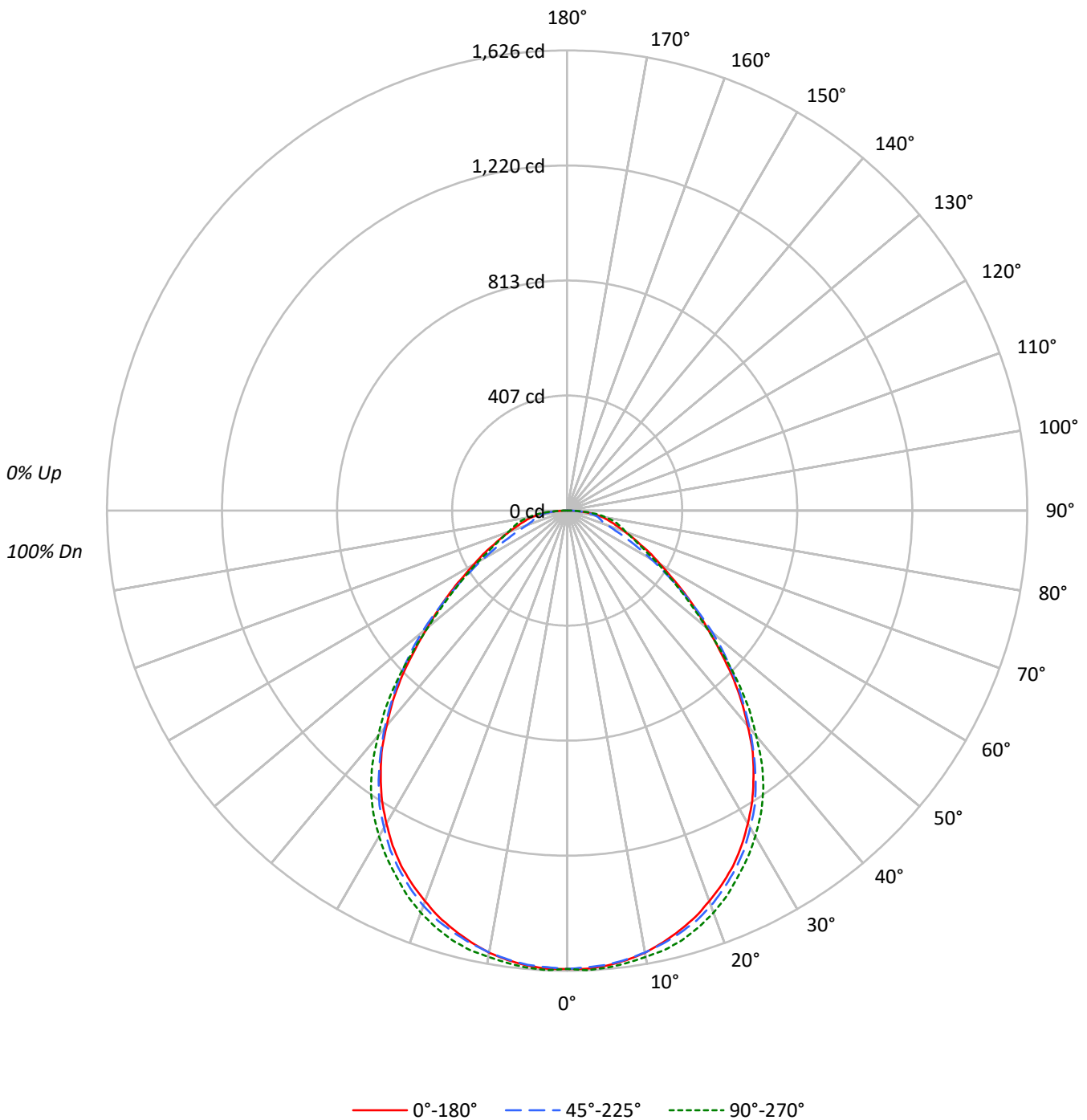
Input Watts (W): 34.782  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292313

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L92765-W2A1-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P292313

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L92765-W2A1-U-3000K

**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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4359	4359	4359
5°	4360	4353	4380
10°	4334	4332	4374
15°	4279	4302	4377
20°	4205	4255	4330
25°	4116	4162	4238
30°	3967	4021	4131
35°	3772	3815	3969
40°	3487	3524	3649
45°	3132	3189	3239
50°	2708	2805	2681
55°	2363	2302	2271
60°	2047	1843	1967
65°	1829	1447	1766
70°	1696	1198	1742
75°	1695	1266	1934
80°	1875	1595	2180
85°	1958	1729	2464



TEST NUMBER: P292313

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L92765-W2A1-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.3	4.3
10°-20°	436.6	12.3
20°-30°	645.7	18.3
30°-40°	728.6	20.6
40°-50°	642.3	18.2
50°-60°	440.6	12.5
60°-70°	260.0	7.4
70°-80°	162.3	4.6
80°-90°	67.7	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°	1235.5	34.9
0°-40°	1964.2	55.5
0°-60°	3047.1	86.1
0°-90°	3537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3537.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1614	1611	1612	1617	1622	153
15°	1536	1538	1544	1563	1571	433
25°	1386	1391	1402	1420	1427	637
35°	1148	1158	1161	1189	1208	715
45°	823	827	838	843	851	632
55°	504	491	491	474	484	452
65°	287	253	227	263	277	289
75°	163	146	122	170	186	175
85°	63	59	56	73	80	68
90°	0	0	0	0	0	



TEST NUMBER: P292313

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L92765-W2A1-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1619.8	1619.8	1619.8	1619.8	1619.8
2.5°	1620.6	1616.5	1614.9	1621.5	1625.6
5°	1614.1	1610.8	1611.6	1617.3	1621.5
7.5°	1602.5	1600.1	1600.1	1608.3	1612.4
10°	1586.1	1585.2	1585.2	1595.1	1600.9
12.5°	1563.0	1563.8	1567.1	1580.3	1590.2
15°	1535.9	1537.5	1544.1	1563.0	1571.3
17.5°	1506.2	1506.2	1519.4	1534.2	1544.1
20°	1468.4	1470.8	1485.7	1502.1	1512.0
22.5°	1429.7	1433.8	1446.1	1465.1	1474.1
25°	1386.1	1391.0	1401.7	1419.8	1427.2
27.5°	1335.0	1341.6	1353.1	1366.3	1381.9
30°	1276.6	1286.5	1293.9	1312.0	1329.3
32.5°	1217.3	1226.4	1234.6	1253.5	1273.3
35°	1148.2	1158.1	1161.4	1189.3	1208.3
37.5°	1077.4	1081.5	1083.2	1111.2	1131.7
40°	992.6	1000.9	1003.3	1025.6	1038.7
42.5°	911.1	914.4	919.4	935.8	951.5
45°	823.1	827.2	837.9	842.8	851.1
47.5°	730.9	743.2	755.6	739.9	740.8
50°	646.9	656.8	670.0	640.4	640.4
52.5°	572.0	577.0	577.8	553.1	558.0
55°	503.7	491.4	490.6	474.1	484.0
57.5°	435.4	418.9	413.2	408.2	419.8
60°	380.3	350.6	342.4	349.8	365.4
62.5°	335.0	297.1	281.5	300.4	314.4
65°	287.3	252.7	227.2	262.6	277.4
67.5°	250.2	217.3	184.4	234.6	245.3
70°	215.6	190.1	152.3	213.2	221.4
72.5°	187.7	167.9	131.7	192.6	202.5
75°	163.0	146.5	121.8	170.4	186.0
77.5°	143.2	125.1	113.6	147.3	166.3
80°	121.0	102.9	102.9	123.5	140.7
82.5°	95.5	80.7	83.1	100.4	112.8
85°	63.4	59.3	56.0	73.3	79.8
87.5°	32.1	32.9	29.6	37.9	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)