

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: P292056

Luminaire Tested: **22GR-LD5-40-F125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-40-F125-UNV-L93050-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3809.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

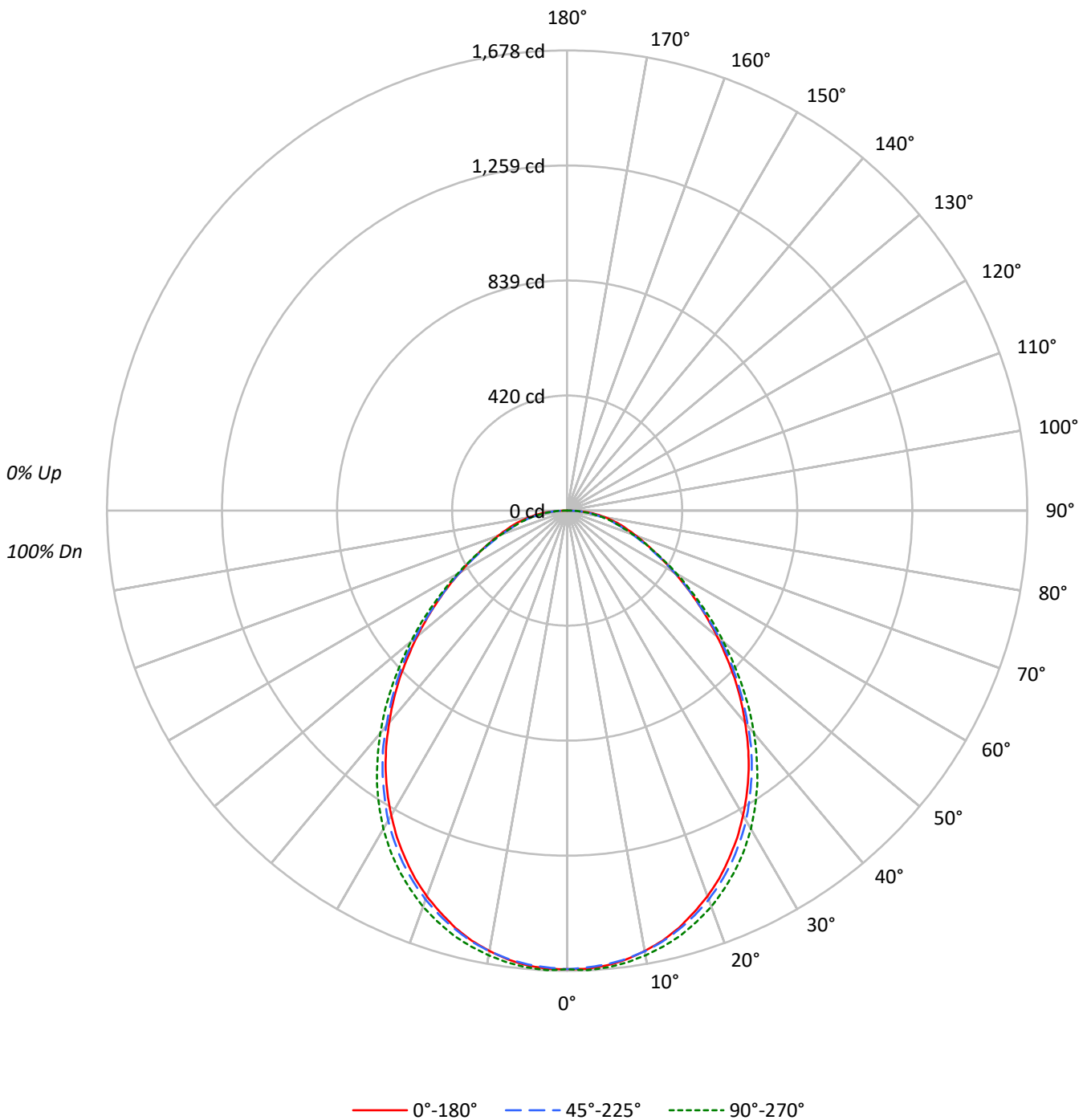
Input Watts (W): 33.759  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292056

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L93050-W2A1-U-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P292056

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L93050-W2A1-U-5000K

**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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

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

	0°	45°	90°
0°	4500	4500	4500
5°	4498	4486	4517
10°	4456	4458	4499
15°	4388	4403	4466
20°	4285	4323	4401
25°	4151	4209	4301
30°	3988	4056	4163
35°	3792	3853	3972
40°	3545	3605	3723
45°	3283	3333	3431
50°	2990	3038	3116
55°	2700	2708	2786
60°	2421	2430	2488
65°	2206	2161	2211
70°	2100	1982	2017
75°	2114	1911	1920
80°	2191	1931	1917
85°	2402	2047	1939



TEST NUMBER: P292056

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L93050-W2A1-U-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.0	4.1
10°-20°	446.3	11.7
20°-30°	653.2	17.1
30°-40°	734.4	19.3
40°-50°	677.3	17.8
50°-60°	522.0	13.7
60°-70°	344.4	9.0
70°-80°	200.5	5.3
80°-90°	73.0	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°	1257.4	33.0
0°-40°	1991.8	52.3
0°-60°	3191.1	83.8
0°-90°	3809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3809.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1665	1662	1661	1669	1672	158
15°	1575	1575	1580	1594	1603	443
25°	1398	1405	1418	1437	1449	643
35°	1154	1160	1173	1197	1209	720
45°	863	864	876	894	902	664
55°	575	574	577	587	594	516
65°	346	345	339	342	347	347
75°	203	194	184	180	185	214
85°	78	77	66	61	63	82
90°	0	0	0	0	0	



TEST NUMBER: P292056

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L93050-W2A1-U-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1672.2	1672.2	1672.2	1672.2	1672.2
2.5°	1672.2	1668.6	1667.7	1673.9	1677.5
5°	1665.1	1661.6	1660.7	1668.6	1672.2
7.5°	1651.0	1648.3	1649.2	1658.0	1662.4
10°	1630.6	1629.7	1631.5	1641.2	1646.5
12.5°	1606.8	1605.9	1609.4	1620.0	1627.1
15°	1574.9	1574.9	1580.3	1594.4	1603.2
17.5°	1536.9	1539.6	1547.5	1561.7	1571.4
20°	1496.3	1498.9	1509.5	1525.5	1536.9
22.5°	1451.2	1454.7	1465.4	1484.8	1494.5
25°	1398.2	1405.3	1417.6	1437.1	1448.6
27.5°	1343.4	1351.3	1362.8	1386.7	1397.3
30°	1283.3	1288.6	1305.4	1327.5	1339.9
32.5°	1219.7	1225.0	1239.1	1265.6	1276.2
35°	1154.3	1159.6	1172.8	1196.7	1209.1
37.5°	1083.5	1088.0	1103.9	1122.4	1135.7
40°	1009.3	1015.5	1026.1	1048.2	1059.7
42.5°	936.8	939.5	951.0	973.1	981.9
45°	862.6	863.5	875.9	893.5	901.5
47.5°	785.7	787.5	802.5	813.1	821.1
50°	714.1	715.0	725.6	735.3	744.2
52.5°	642.5	642.5	647.8	658.4	669.9
55°	575.4	574.5	577.1	586.8	593.9
57.5°	511.7	510.8	514.4	520.6	525.9
60°	449.9	448.1	451.6	455.2	462.2
62.5°	395.1	396.8	392.4	397.7	403.0
65°	346.5	344.7	339.4	342.0	347.3
67.5°	304.9	302.3	293.4	295.2	301.4
70°	266.9	261.6	251.9	251.9	256.3
72.5°	232.4	227.1	214.8	215.6	217.4
75°	203.3	194.4	183.8	180.3	184.7
77.5°	171.5	164.4	154.7	152.0	153.8
80°	141.4	136.1	124.6	121.1	123.7
82.5°	112.2	107.8	94.6	91.9	92.8
85°	77.8	76.9	66.3	61.0	62.8
87.5°	41.5	42.4	34.5	30.9	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)