

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: P292009

Luminaire Tested: **22GR-LD5-40-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292009  
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-L82765-W2A1-U-2700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3742.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 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

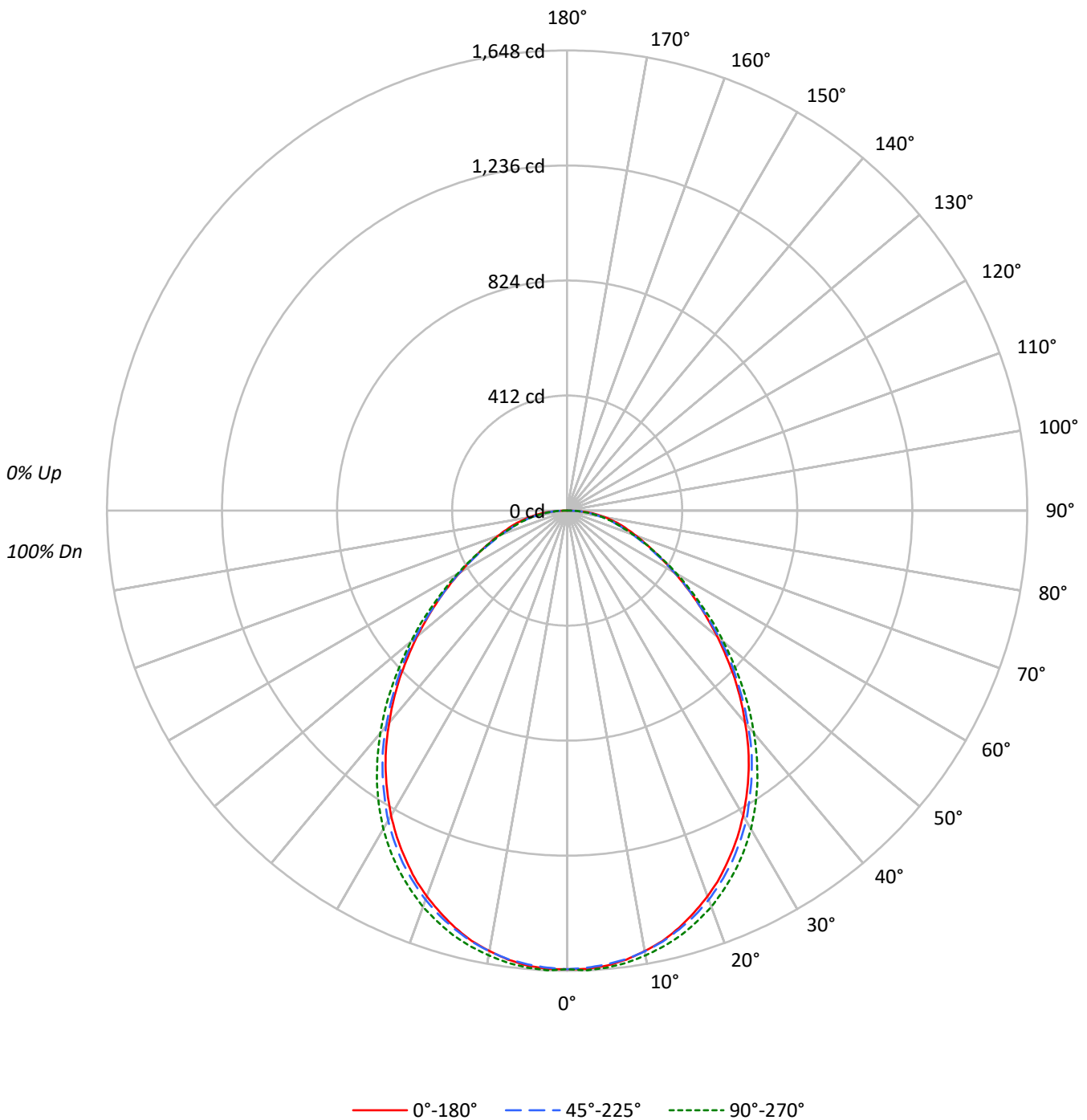
Input Watts (W): 32.364  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292009

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L82765-W2A1-U-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P292009

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L82765-W2A1-U-2700K

**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°	4421	4421	4421
5°	4419	4407	4438
10°	4377	4380	4420
15°	4310	4325	4388
20°	4210	4247	4324
25°	4078	4135	4225
30°	3917	3985	4090
35°	3725	3785	3902
40°	3483	3541	3657
45°	3225	3274	3370
50°	2937	2984	3061
55°	2652	2660	2738
60°	2378	2388	2444
65°	2167	2123	2173
70°	2063	1947	1981
75°	2076	1878	1887
80°	2152	1897	1884
85°	2359	2010	1902



TEST NUMBER: P292009

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L82765-W2A1-U-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.2	4.1
10°-20°	438.4	11.7
20°-30°	641.7	17.1
30°-40°	721.5	19.3
40°-50°	665.3	17.8
50°-60°	512.8	13.7
60°-70°	338.4	9.0
70°-80°	196.9	5.3
80°-90°	71.7	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°	1235.3	33.0
0°-40°	1956.8	52.3
0°-60°	3134.9	83.8
0°-90°	3742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3742.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1636	1632	1632	1639	1643	155
15°	1547	1547	1552	1566	1575	435
25°	1374	1380	1393	1412	1423	632
35°	1134	1139	1152	1176	1188	707
45°	847	848	860	878	886	653
55°	565	564	567	576	584	507
65°	340	339	333	336	341	341
75°	200	191	181	177	182	210
85°	76	76	65	60	62	81
90°	0	0	0	0	0	



TEST NUMBER: P292009

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L82765-W2A1-U-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1642.8	1642.8	1642.8	1642.8	1642.8
2.5°	1642.8	1639.3	1638.4	1644.5	1648.0
5°	1635.8	1632.3	1631.5	1639.3	1642.8
7.5°	1621.9	1619.3	1620.2	1628.9	1633.2
10°	1601.9	1601.1	1602.8	1612.4	1617.6
12.5°	1578.5	1577.6	1581.1	1591.5	1598.5
15°	1547.2	1547.2	1552.5	1566.3	1575.0
17.5°	1509.9	1512.5	1520.3	1534.2	1543.8
20°	1470.0	1472.6	1483.0	1498.6	1509.9
22.5°	1425.7	1429.2	1439.6	1458.7	1468.2
25°	1373.6	1380.5	1392.7	1411.8	1423.1
27.5°	1319.8	1327.6	1338.9	1362.3	1372.7
30°	1260.7	1265.9	1282.4	1304.1	1316.3
32.5°	1198.2	1203.4	1217.3	1243.4	1253.8
35°	1134.0	1139.2	1152.2	1175.6	1187.8
37.5°	1064.5	1068.8	1084.5	1102.7	1115.7
40°	991.6	997.6	1008.1	1029.8	1041.0
42.5°	920.4	923.0	934.3	956.0	964.6
45°	847.4	848.3	860.4	877.8	885.6
47.5°	771.9	773.6	788.4	798.8	806.6
50°	701.6	702.4	712.8	722.4	731.1
52.5°	631.2	631.2	636.4	646.9	658.1
55°	565.2	564.4	567.0	576.5	583.5
57.5°	502.7	501.9	505.3	511.4	516.6
60°	441.9	440.2	443.7	447.2	454.1
62.5°	388.1	389.9	385.5	390.7	395.9
65°	340.4	338.6	333.4	336.0	341.2
67.5°	299.6	296.9	288.3	290.0	296.1
70°	262.2	257.0	247.5	247.5	251.8
72.5°	228.4	223.1	211.0	211.9	213.6
75°	199.7	191.0	180.6	177.1	181.5
77.5°	168.4	161.5	151.9	149.3	151.1
80°	138.9	133.7	122.4	119.0	121.6
82.5°	110.3	105.9	92.9	90.3	91.2
85°	76.4	75.5	65.1	59.9	61.6
87.5°	40.8	41.7	33.9	30.4	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)