

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: P292110

Luminaire Tested: **22GR-LD5-40-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292110  
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-L92765-W2A1-U-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3602.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 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

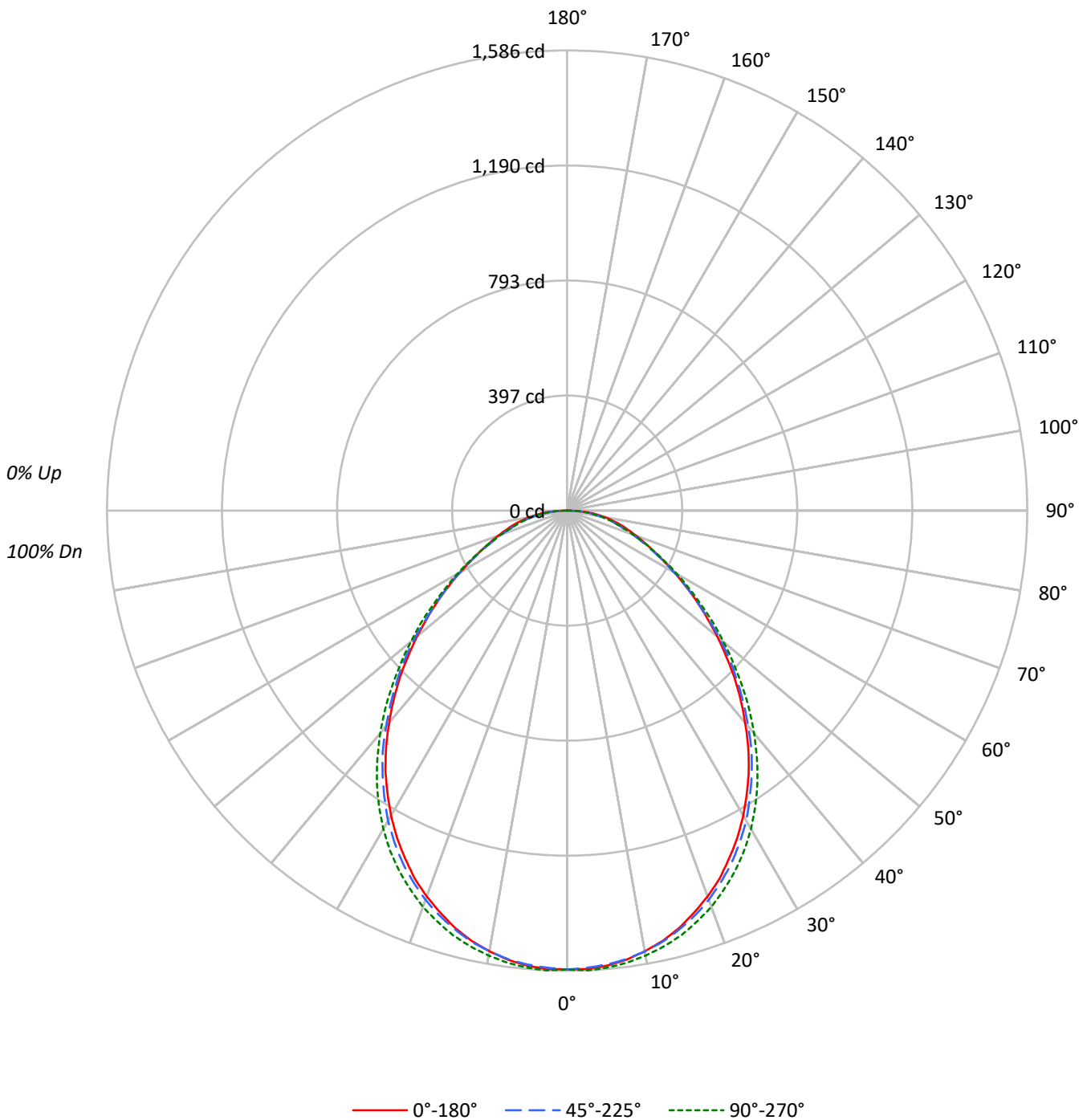
Input Watts (W): 32.736  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4255	4255	4255
5°	4253	4242	4271
10°	4214	4216	4255
15°	4149	4163	4224
20°	4052	4088	4162
25°	3926	3980	4067
30°	3771	3836	3937
35°	3586	3643	3756
40°	3353	3408	3520
45°	3104	3152	3244
50°	2827	2873	2946
55°	2553	2561	2635
60°	2289	2299	2352
65°	2086	2043	2092
70°	1986	1874	1907
75°	1998	1807	1816
80°	2072	1826	1813
85°	2269	1936	1831



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.4	4.1
10°-20°	422.0	11.7
20°-30°	617.7	17.1
30°-40°	694.5	19.3
40°-50°	640.5	17.8
50°-60°	493.6	13.7
60°-70°	325.7	9.0
70°-80°	189.6	5.3
80°-90°	69.1	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°	1189.1	33.0
0°-40°	1883.6	52.3
0°-60°	3017.6	83.8
0°-90°	3602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3602.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1575	1571	1570	1578	1581	149
15°	1489	1489	1494	1508	1516	419
25°	1322	1329	1341	1359	1370	608
35°	1092	1096	1109	1132	1143	681
45°	816	817	828	845	852	628
55°	544	543	546	555	562	488
65°	328	326	321	323	328	329
75°	192	184	174	170	175	202
85°	74	73	63	58	59	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1581.3	1581.3	1581.3	1581.3	1581.3
2.5°	1581.3	1577.9	1577.1	1583.0	1586.3
5°	1574.6	1571.3	1570.4	1577.9	1581.3
7.5°	1561.2	1558.7	1559.6	1567.9	1572.1
10°	1542.0	1541.2	1542.8	1552.0	1557.1
12.5°	1519.4	1518.6	1522.0	1532.0	1538.7
15°	1489.4	1489.4	1494.4	1507.7	1516.1
17.5°	1453.4	1455.9	1463.4	1476.8	1486.0
20°	1415.0	1417.5	1427.5	1442.6	1453.4
22.5°	1372.3	1375.7	1385.7	1404.1	1413.3
25°	1322.2	1328.9	1340.6	1359.0	1369.8
27.5°	1270.4	1277.9	1288.8	1311.3	1321.4
30°	1213.6	1218.6	1234.4	1255.3	1267.0
32.5°	1153.4	1158.4	1171.8	1196.8	1206.9
35°	1091.5	1096.5	1109.1	1131.6	1143.3
37.5°	1024.7	1028.8	1043.9	1061.4	1074.0
40°	954.5	960.3	970.3	991.2	1002.1
42.5°	885.9	888.4	899.3	920.2	928.5
45°	815.7	816.6	828.3	845.0	852.5
47.5°	743.0	744.7	758.9	768.9	776.4
50°	675.3	676.1	686.2	695.4	703.7
52.5°	607.6	607.6	612.6	622.7	633.5
55°	544.1	543.3	545.8	555.0	561.6
57.5°	483.9	483.1	486.4	492.3	497.3
60°	425.4	423.7	427.1	430.4	437.1
62.5°	373.6	375.3	371.1	376.1	381.1
65°	327.6	326.0	320.9	323.4	328.5
67.5°	288.3	285.8	277.5	279.2	285.0
70°	252.4	247.4	238.2	238.2	242.4
72.5°	219.8	214.8	203.1	203.9	205.6
75°	192.2	183.9	173.8	170.5	174.7
77.5°	162.1	155.5	146.3	143.8	145.4
80°	133.7	128.7	117.8	114.5	117.0
82.5°	106.1	102.0	89.4	86.9	87.8
85°	73.5	72.7	62.7	57.7	59.3
87.5°	39.3	40.1	32.6	29.3	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)