

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: P292108

Luminaire Tested: **22GR-LD5-40-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292108  
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-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3323.0 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

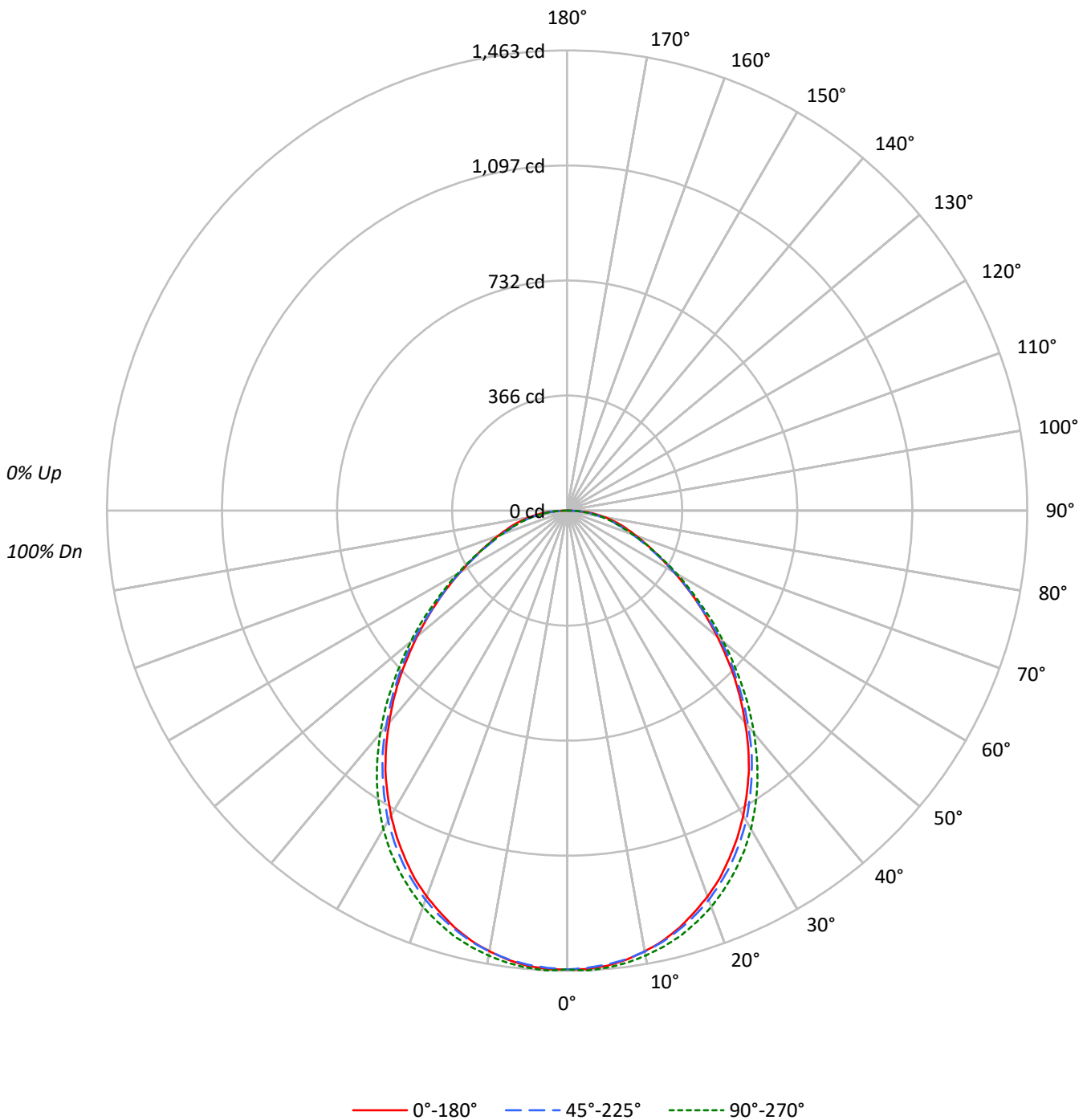
Input Watts (W): 32.085  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3926	3926	3926
5°	3924	3914	3941
10°	3887	3889	3925
15°	3828	3841	3897
20°	3738	3771	3840
25°	3622	3672	3752
30°	3479	3539	3632
35°	3308	3361	3465
40°	3093	3145	3248
45°	2864	2908	2993
50°	2608	2650	2718
55°	2355	2362	2431
60°	2112	2120	2171
65°	1924	1885	1929
70°	1832	1729	1759
75°	1843	1668	1675
80°	1912	1684	1672
85°	2096	1785	1689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.8	4.1
10°-20°	389.3	11.7
20°-30°	569.8	17.1
30°-40°	640.7	19.3
40°-50°	590.8	17.8
50°-60°	455.4	13.7
60°-70°	300.5	9.0
70°-80°	174.9	5.3
80°-90°	63.7	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°	1097.0	33.0
0°-40°	1737.7	52.3
0°-60°	2783.9	83.8
0°-90°	3323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1453	1450	1449	1456	1459	138
15°	1374	1374	1379	1391	1399	387
25°	1220	1226	1237	1254	1264	561
35°	1007	1012	1023	1044	1055	628
45°	752	753	764	780	786	579
55°	502	501	504	512	518	450
65°	302	301	296	298	303	303
75°	177	170	160	157	161	187
85°	68	67	58	53	55	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1458.8	1458.8	1458.8	1458.8	1458.8
2.5°	1458.8	1455.7	1455.0	1460.4	1463.4
5°	1452.6	1449.6	1448.8	1455.7	1458.8
7.5°	1440.3	1438.0	1438.8	1446.5	1450.3
10°	1422.6	1421.8	1423.3	1431.8	1436.5
12.5°	1401.8	1401.0	1404.1	1413.3	1419.5
15°	1374.0	1374.0	1378.6	1391.0	1398.7
17.5°	1340.8	1343.2	1350.1	1362.4	1370.9
20°	1305.4	1307.7	1316.9	1330.8	1340.8
22.5°	1266.1	1269.1	1278.4	1295.4	1303.8
25°	1219.8	1226.0	1236.8	1253.7	1263.7
27.5°	1172.0	1178.9	1188.9	1209.8	1219.0
30°	1119.6	1124.2	1138.8	1158.1	1168.9
32.5°	1064.0	1068.7	1081.0	1104.1	1113.4
35°	1007.0	1011.6	1023.2	1044.0	1054.8
37.5°	945.3	949.2	963.0	979.2	990.8
40°	880.5	885.9	895.2	914.5	924.5
42.5°	817.3	819.6	829.6	848.9	856.6
45°	752.5	753.3	764.1	779.5	786.5
47.5°	685.5	687.0	700.1	709.4	716.3
50°	623.0	623.8	633.0	641.5	649.2
52.5°	560.5	560.5	565.2	574.4	584.4
55°	501.9	501.2	503.5	512.0	518.1
57.5°	446.4	445.7	448.7	454.1	458.8
60°	392.5	390.9	394.0	397.1	403.3
62.5°	344.7	346.2	342.3	347.0	351.6
65°	302.2	300.7	296.1	298.4	303.0
67.5°	266.0	263.7	256.0	257.5	262.9
70°	232.9	228.2	219.7	219.7	223.6
72.5°	202.8	198.2	187.4	188.1	189.7
75°	177.3	169.6	160.4	157.3	161.1
77.5°	149.6	143.4	134.9	132.6	134.2
80°	123.4	118.7	108.7	105.6	107.9
82.5°	97.9	94.1	82.5	80.2	81.0
85°	67.9	67.1	57.8	53.2	54.7
87.5°	36.2	37.0	30.1	27.0	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)