

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: P292093

Luminaire Tested: **22GR-LD5-32-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292093  
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-LD5-32-F125-UNV-L92765-W2A1-U-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2920.0 lumens  
Efficiency: N/A  
Efficacy: 116.7 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

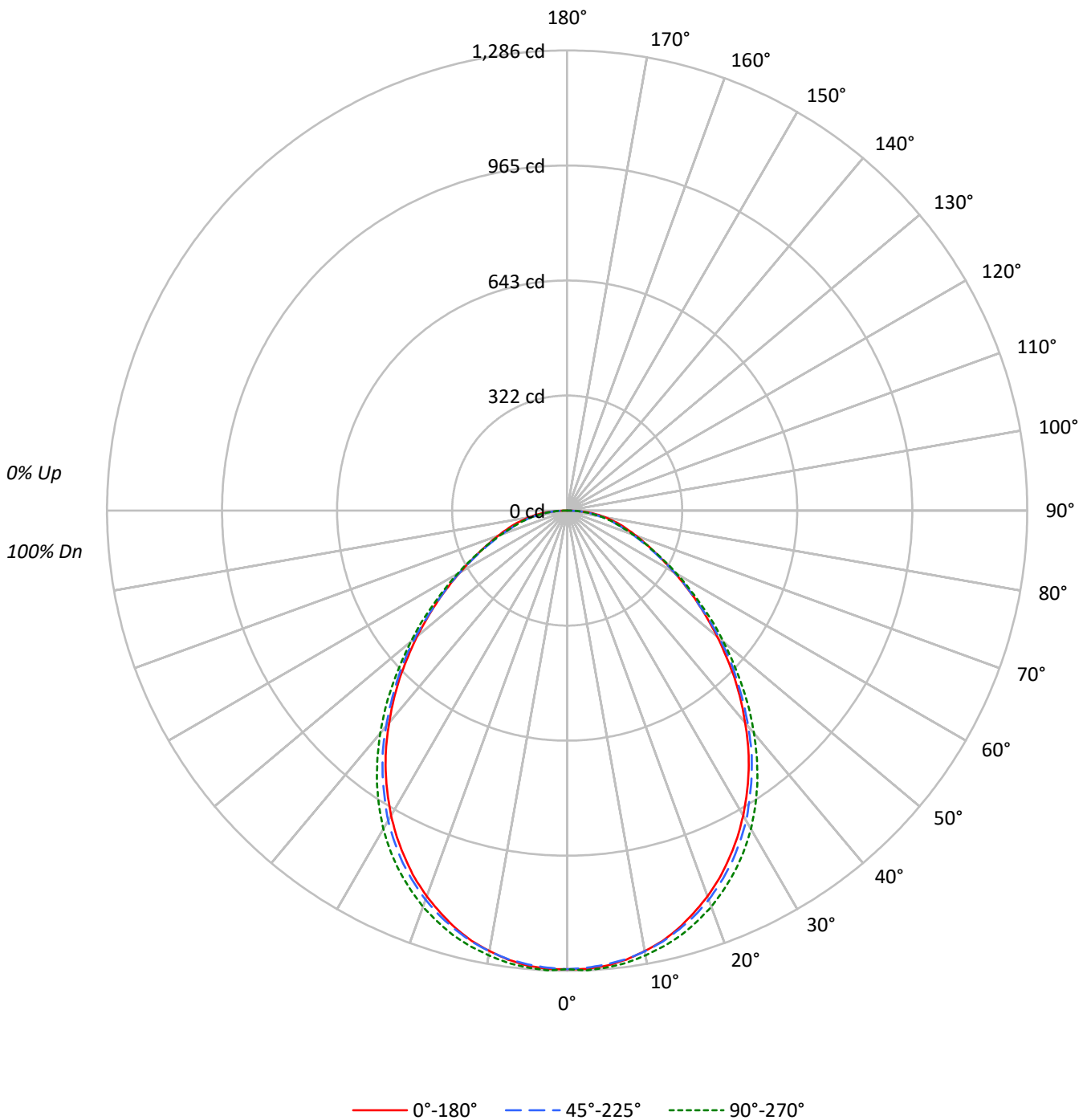
Input Watts (W): 25.017  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3450	3450	3450
5°	3448	3439	3463
10°	3416	3418	3449
15°	3364	3375	3424
20°	3285	3314	3374
25°	3183	3227	3297
30°	3057	3109	3191
35°	2907	2954	3045
40°	2718	2763	2854
45°	2517	2555	2630
50°	2292	2329	2388
55°	2069	2076	2136
60°	1856	1863	1907
65°	1691	1657	1696
70°	1610	1519	1546
75°	1620	1465	1472
80°	1680	1480	1471
85°	1840	1568	1485



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.1	4.1
10°-20°	342.1	11.7
20°-30°	500.7	17.1
30°-40°	563.0	19.3
40°-50°	519.2	17.8
50°-60°	400.2	13.7
60°-70°	264.0	9.0
70°-80°	153.7	5.3
80°-90°	56.0	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°	964.0	33.0
0°-40°	1526.9	52.3
0°-60°	2446.3	83.8
0°-90°	2920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2920.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1276	1274	1273	1279	1282	121
15°	1207	1207	1211	1222	1229	340
25°	1072	1077	1087	1102	1110	493
35°	885	889	899	917	927	552
45°	661	662	671	685	691	509
55°	441	440	442	450	455	396
65°	266	264	260	262	266	266
75°	156	149	141	138	142	164
85°	60	59	51	47	48	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1281.9	1281.9	1281.9	1281.9	1281.9
2.5°	1281.9	1279.2	1278.5	1283.2	1286.0
5°	1276.5	1273.8	1273.1	1279.2	1281.9
7.5°	1265.6	1263.6	1264.3	1271.1	1274.4
10°	1250.0	1249.4	1250.7	1258.2	1262.2
12.5°	1231.8	1231.1	1233.8	1241.9	1247.3
15°	1207.4	1207.4	1211.4	1222.3	1229.0
17.5°	1178.2	1180.3	1186.4	1197.2	1204.7
20°	1147.1	1149.1	1157.2	1169.4	1178.2
22.5°	1112.5	1115.2	1123.3	1138.3	1145.7
25°	1071.9	1077.3	1086.8	1101.7	1110.5
27.5°	1029.8	1035.9	1044.8	1063.0	1071.2
30°	983.8	987.8	1000.7	1017.7	1027.1
32.5°	935.0	939.1	949.9	970.2	978.4
35°	884.9	888.9	899.1	917.4	926.9
37.5°	830.7	834.0	846.2	860.5	870.6
40°	773.7	778.5	786.6	803.6	812.4
42.5°	718.2	720.2	729.0	746.0	752.7
45°	661.3	661.9	671.4	685.0	691.1
47.5°	602.3	603.7	615.2	623.3	629.4
50°	547.4	548.1	556.3	563.7	570.5
52.5°	492.6	492.6	496.6	504.8	513.6
55°	441.1	440.4	442.4	449.9	455.3
57.5°	392.3	391.6	394.3	399.1	403.1
60°	344.9	343.5	346.2	348.9	354.3
62.5°	302.9	304.2	300.8	304.9	309.0
65°	265.6	264.2	260.2	262.2	266.3
67.5°	233.7	231.7	224.9	226.3	231.0
70°	204.6	200.5	193.1	193.1	196.5
72.5°	178.2	174.1	164.6	165.3	166.7
75°	155.8	149.1	140.9	138.2	141.6
77.5°	131.4	126.0	118.6	116.5	117.9
80°	108.4	104.3	95.5	92.8	94.9
82.5°	86.0	82.7	72.5	70.5	71.1
85°	59.6	58.9	50.8	46.7	48.1
87.5°	31.8	32.5	26.4	23.7	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)