

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: P292385

Luminaire Tested: **22GR-LD5-32-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-A125-UNV-L82765-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3133.0 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

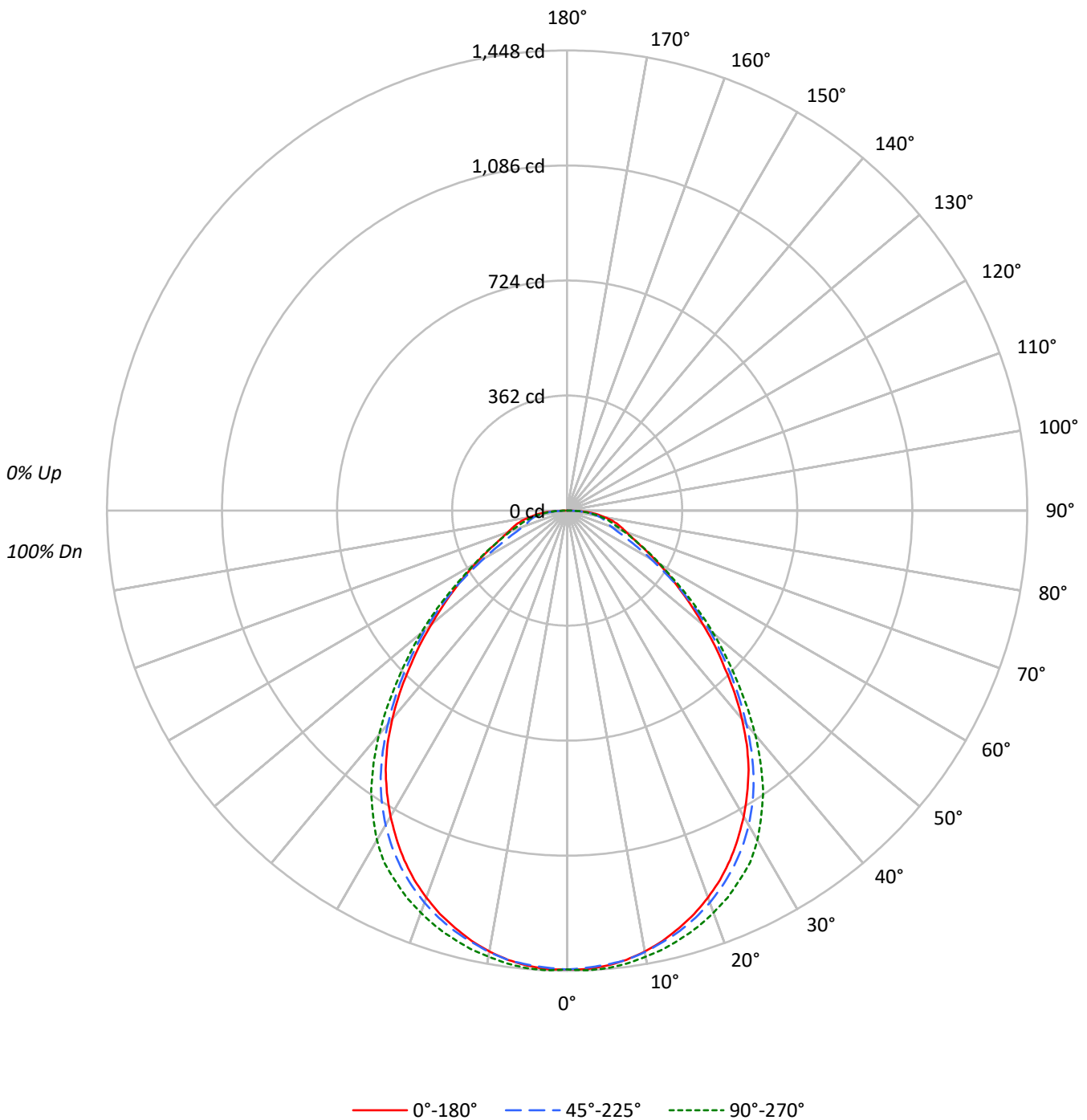
Input Watts (W): 24.645  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

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

	0°	45°	90°
0°	3886	3886	3886
5°	3883	3873	3905
10°	3850	3854	3894
15°	3789	3816	3881
20°	3711	3759	3855
25°	3602	3676	3811
30°	3452	3550	3720
35°	3271	3362	3532
40°	3007	3082	3236
45°	2672	2769	2869
50°	2334	2440	2514
55°	2029	2056	2132
60°	1785	1636	1820
65°	1586	1307	1596
70°	1558	1161	1471
75°	1701	1276	1503
80°	1867	1517	1607
85°	2232	1760	1803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.5	4.4
10°-20°	387.1	12.4
20°-30°	571.4	18.2
30°-40°	639.4	20.4
40°-50°	561.5	17.9
50°-60°	397.3	12.7
60°-70°	231.3	7.4
70°-80°	144.1	4.6
80°-90°	64.5	2.1
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°	1095.0	34.9
0°-40°	1734.3	55.4
0°-60°	2693.1	86.0
0°-90°	3133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3133.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1438	1434	1434	1441	1446	136
15°	1360	1363	1370	1384	1393	383
25°	1213	1218	1238	1267	1284	557
35°	996	1000	1023	1054	1075	619
45°	702	710	728	745	754	543
55°	432	441	438	446	454	391
65°	249	229	205	224	251	253
75°	164	141	123	126	145	171
85°	72	75	57	56	58	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1444.2	1444.2	1444.2	1444.2	1444.2
2.5°	1444.2	1441.2	1439.8	1444.9	1447.8
5°	1437.6	1433.9	1433.9	1441.2	1445.6
7.5°	1425.9	1422.2	1426.6	1433.2	1437.6
10°	1409.1	1407.6	1410.6	1419.3	1425.2
12.5°	1387.2	1387.9	1390.8	1404.7	1412.0
15°	1360.2	1363.1	1369.6	1384.3	1393.0
17.5°	1330.9	1333.1	1343.4	1360.2	1372.6
20°	1295.9	1300.3	1312.7	1333.9	1346.3
22.5°	1257.2	1262.3	1277.6	1303.2	1318.5
25°	1213.3	1218.4	1238.2	1267.4	1283.5
27.5°	1163.7	1171.7	1193.6	1225.7	1247.7
30°	1111.1	1117.6	1142.5	1179.0	1197.3
32.5°	1054.8	1062.8	1086.2	1121.3	1137.4
35°	995.6	1000.0	1023.4	1054.1	1075.3
37.5°	928.4	930.6	952.5	981.0	1000.0
40°	856.1	857.6	877.3	904.3	921.1
42.5°	780.9	781.6	802.8	823.3	837.9
45°	702.0	710.0	727.6	745.1	753.9
47.5°	631.1	637.0	653.0	668.4	676.4
50°	557.4	572.0	582.9	591.0	600.5
52.5°	493.8	506.2	509.1	518.6	526.7
55°	432.4	441.2	438.3	446.3	454.4
57.5°	380.6	376.2	366.7	380.6	390.8
60°	331.6	319.9	303.9	322.9	338.2
62.5°	287.8	268.8	249.1	268.1	293.7
65°	249.1	229.4	205.3	223.5	250.6
67.5°	219.9	199.4	170.9	189.2	216.2
70°	198.0	176.8	147.6	162.9	187.0
72.5°	180.4	157.8	132.2	142.4	162.9
75°	163.6	141.0	122.7	125.6	144.6
77.5°	143.9	127.1	112.5	111.0	125.6
80°	120.5	115.4	97.9	95.7	103.7
82.5°	99.3	97.2	80.4	78.2	81.1
85°	72.3	75.2	57.0	55.5	58.4
87.5°	38.0	41.6	29.9	31.4	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)