

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: P292485

Luminaire Tested: **22GR-LD5-32-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292485  
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-L92765-W2A1-U-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2906.0 lumens  
Efficiency: N/A  
Efficacy: 116.2 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

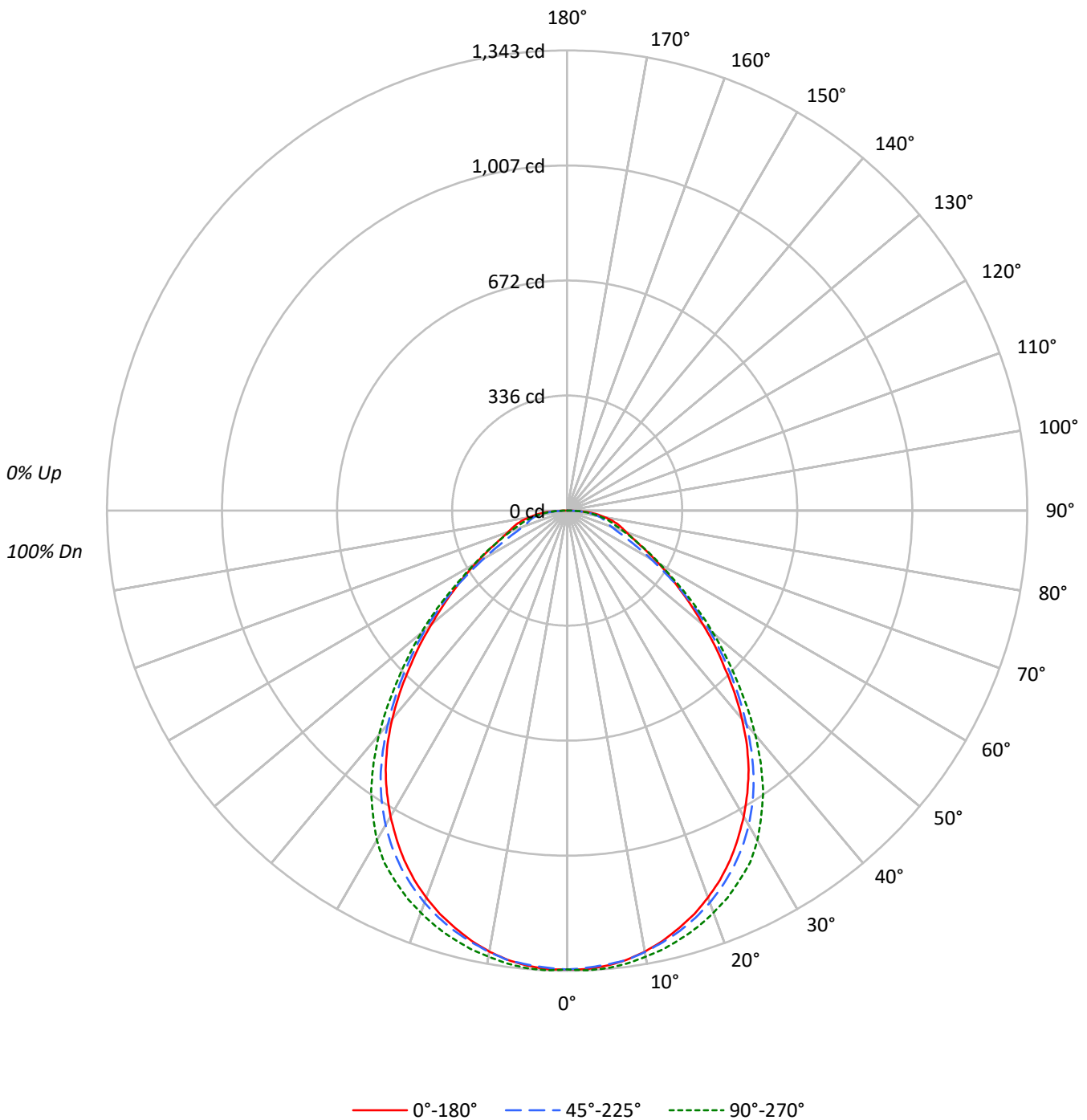
Input Watts (W): 25.017  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3605	3605	3605
5°	3602	3593	3622
10°	3571	3575	3612
15°	3515	3539	3600
20°	3442	3487	3576
25°	3342	3410	3535
30°	3202	3293	3451
35°	3034	3119	3277
40°	2790	2858	3001
45°	2478	2568	2661
50°	2164	2264	2331
55°	1882	1907	1977
60°	1655	1517	1688
65°	1471	1212	1480
70°	1445	1077	1365
75°	1578	1183	1395
80°	1733	1407	1491
85°	2072	1630	1673



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.6	4.4
10°-20°	359.0	12.4
20°-30°	530.0	18.2
30°-40°	593.1	20.4
40°-50°	520.8	17.9
50°-60°	368.5	12.7
60°-70°	214.5	7.4
70°-80°	133.7	4.6
80°-90°	59.8	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°	1015.6	34.9
0°-40°	1608.7	55.4
0°-60°	2498.0	86.0
0°-90°	2906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2906.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1333	1330	1330	1337	1341	126
15°	1262	1264	1270	1284	1292	355
25°	1125	1130	1148	1176	1190	517
35°	924	928	949	978	997	574
45°	651	659	675	691	699	504
55°	401	409	406	414	421	363
65°	231	213	190	207	232	234
75°	152	131	114	116	134	159
85°	67	70	53	52	54	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1339.5	1339.5	1339.5	1339.5	1339.5
2.5°	1339.5	1336.8	1335.5	1340.2	1342.9
5°	1333.4	1330.0	1330.0	1336.8	1340.9
7.5°	1322.6	1319.2	1323.3	1329.4	1333.4
10°	1307.0	1305.6	1308.4	1316.5	1321.9
12.5°	1286.7	1287.4	1290.1	1302.9	1309.7
15°	1261.6	1264.3	1270.4	1284.0	1292.1
17.5°	1234.5	1236.5	1246.0	1261.6	1273.1
20°	1202.0	1206.0	1217.6	1237.2	1248.7
22.5°	1166.1	1170.8	1185.0	1208.8	1223.0
25°	1125.4	1130.2	1148.5	1175.6	1190.5
27.5°	1079.3	1086.8	1107.1	1136.9	1157.3
30°	1030.6	1036.7	1059.7	1093.6	1110.5
32.5°	978.4	985.8	1007.5	1040.0	1054.9
35°	923.5	927.6	949.3	977.7	997.4
37.5°	861.2	863.2	883.5	910.0	927.6
40°	794.1	795.4	813.7	838.8	854.4
42.5°	724.3	725.0	744.6	763.6	777.2
45°	651.1	658.6	674.8	691.1	699.2
47.5°	585.4	590.8	605.7	620.0	627.4
50°	517.0	530.5	540.7	548.1	556.9
52.5°	458.0	469.5	472.3	481.1	488.5
55°	401.1	409.2	406.5	414.0	421.4
57.5°	353.0	348.9	340.1	353.0	362.5
60°	307.6	296.8	281.9	299.5	313.7
62.5°	267.0	249.3	231.0	248.7	272.4
65°	231.0	212.8	190.4	207.3	232.4
67.5°	203.9	185.0	158.5	175.5	200.6
70°	183.6	164.0	136.9	151.1	173.5
72.5°	167.4	146.4	122.6	132.1	151.1
75°	151.8	130.8	113.8	116.5	134.2
77.5°	133.5	117.9	104.3	103.0	116.5
80°	111.8	107.1	90.8	88.8	96.2
82.5°	92.1	90.1	74.5	72.5	75.2
85°	67.1	69.8	52.8	51.5	54.2
87.5°	35.2	38.6	27.8	29.1	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)