

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: P292460

Luminaire Tested: **22GR-LD5-20-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292460  
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-LD5-20-A125-UNV-L92765-W2A1-U-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1942.0 lumens  
Efficiency: N/A  
Efficacy: 122.1 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

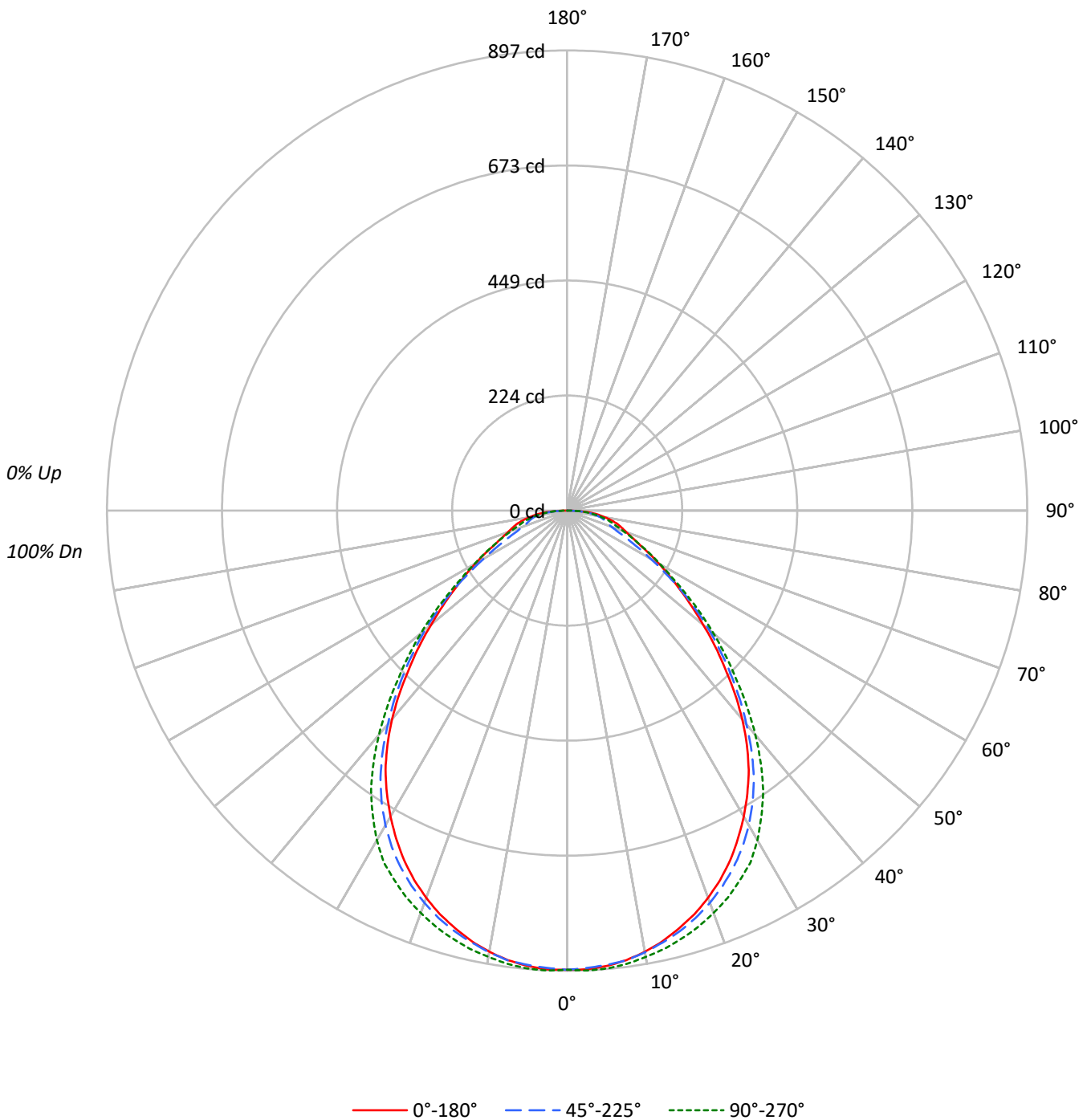
Input Watts (W): 15.903  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2409	2409	2409
5°	2407	2401	2421
10°	2387	2389	2414
15°	2349	2365	2406
20°	2300	2330	2390
25°	2233	2279	2362
30°	2140	2201	2306
35°	2028	2084	2190
40°	1864	1910	2006
45°	1656	1716	1778
50°	1446	1513	1558
55°	1258	1275	1321
60°	1107	1014	1128
65°	983	810	989
70°	965	720	912
75°	1054	791	933
80°	1158	941	996
85°	1383	1090	1118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	4.4
10°-20°	239.9	12.4
20°-30°	354.2	18.2
30°-40°	396.3	20.4
40°-50°	348.0	17.9
50°-60°	246.3	12.7
60°-70°	143.4	7.4
70°-80°	89.3	4.6
80°-90°	40.0	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°	678.7	34.9
0°-40°	1075.1	55.4
0°-60°	1669.4	86.0
0°-90°	1942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1942.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	891	889	889	893	896	84
15°	843	845	849	858	864	238
25°	752	755	768	786	796	345
35°	617	620	634	653	666	384
45°	435	440	451	462	467	337
55°	268	274	272	277	282	242
65°	154	142	127	139	155	157
75°	101	87	76	78	90	106
85°	45	47	35	34	36	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	895.2	895.2	895.2	895.2	895.2
2.5°	895.2	893.4	892.4	895.6	897.4
5°	891.1	888.8	888.8	893.4	896.1
7.5°	883.8	881.6	884.3	888.4	891.1
10°	873.4	872.5	874.3	879.8	883.4
12.5°	859.8	860.3	862.1	870.7	875.2
15°	843.1	844.9	849.0	858.0	863.5
17.5°	825.0	826.3	832.7	843.1	850.8
20°	803.2	806.0	813.7	826.8	834.5
22.5°	779.3	782.4	791.9	807.8	817.3
25°	752.1	755.3	767.5	785.6	795.6
27.5°	721.3	726.3	739.9	759.8	773.4
30°	688.7	692.8	708.2	730.8	742.1
32.5°	653.8	658.8	673.3	695.0	705.0
35°	617.2	619.9	634.4	653.4	666.5
37.5°	575.5	576.9	590.4	608.1	619.9
40°	530.7	531.6	543.8	560.6	571.0
42.5°	484.0	484.5	497.6	510.3	519.4
45°	435.1	440.1	451.0	461.8	467.3
47.5°	391.2	394.8	404.8	414.3	419.3
50°	345.5	354.5	361.3	366.3	372.2
52.5°	306.1	313.8	315.6	321.5	326.5
55°	268.1	273.5	271.7	276.7	281.6
57.5°	235.9	233.2	227.3	235.9	242.2
60°	205.6	198.3	188.4	200.1	209.6
62.5°	178.4	166.6	154.4	166.2	182.0
65°	154.4	142.2	127.2	138.6	155.3
67.5°	136.3	123.6	106.0	117.3	134.0
70°	122.7	109.6	91.5	101.0	115.9
72.5°	111.8	97.8	82.0	88.3	101.0
75°	101.4	87.4	76.1	77.9	89.7
77.5°	89.2	78.8	69.7	68.8	77.9
80°	74.7	71.5	60.7	59.3	64.3
82.5°	61.6	60.2	49.8	48.4	50.3
85°	44.8	46.6	35.3	34.4	36.2
87.5°	23.5	25.8	18.6	19.5	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)