

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: P292458

Luminaire Tested: **22GR-LD5-20-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292458  
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-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: 1875.0 lumens  
Efficiency: N/A  
Efficacy: 119.3 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

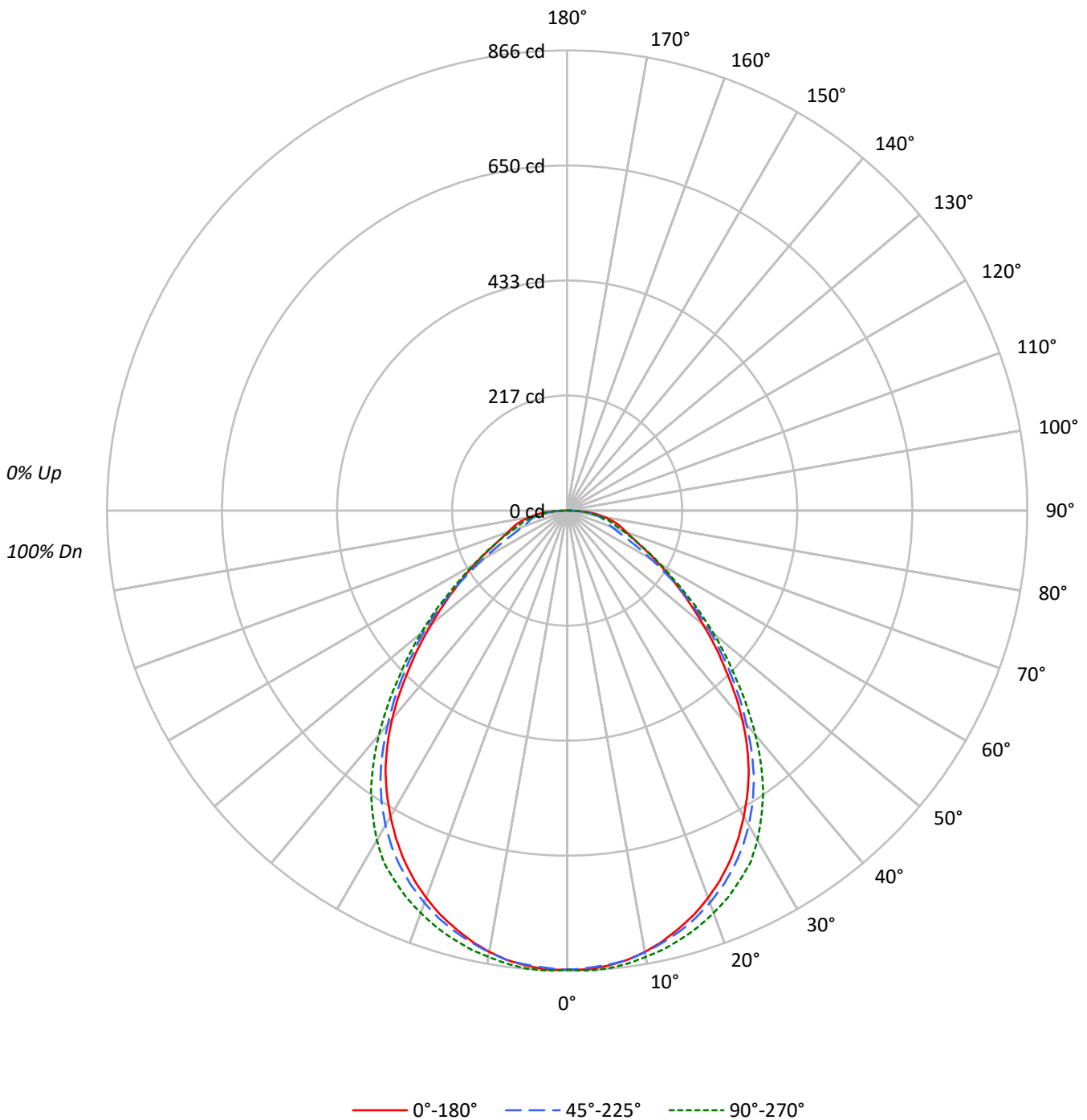
Input Watts (W): 15.717  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

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

	0°	45°	90°
0°	2326	2326	2326
5°	2324	2318	2337
10°	2304	2307	2331
15°	2268	2284	2323
20°	2221	2250	2307
25°	2156	2200	2281
30°	2066	2124	2226
35°	1958	2012	2114
40°	1800	1844	1937
45°	1599	1657	1717
50°	1397	1461	1505
55°	1214	1231	1276
60°	1068	979	1089
65°	949	782	954
70°	932	695	880
75°	1018	763	900
80°	1117	908	962
85°	1337	1053	1081



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.7	4.4
10°-20°	231.6	12.4
20°-30°	342.0	18.2
30°-40°	382.7	20.4
40°-50°	336.0	17.9
50°-60°	237.8	12.7
60°-70°	138.4	7.4
70°-80°	86.2	4.6
80°-90°	38.6	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°	655.3	34.9
0°-40°	1038.0	55.4
0°-60°	1611.8	86.0
0°-90°	1875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1875.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	860	858	858	862	865	82
15°	814	816	820	828	834	229
25°	726	729	741	758	768	334
35°	596	598	612	631	644	371
45°	420	425	435	446	451	325
55°	259	264	262	267	272	234
65°	149	137	123	134	150	151
75°	98	84	73	75	87	102
85°	43	45	34	33	35	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	864.3	864.3	864.3	864.3	864.3
2.5°	864.3	862.5	861.7	864.7	866.5
5°	860.3	858.2	858.2	862.5	865.2
7.5°	853.4	851.2	853.8	857.7	860.3
10°	843.3	842.4	844.2	849.4	852.9
12.5°	830.2	830.6	832.4	840.7	845.0
15°	814.0	815.8	819.7	828.4	833.7
17.5°	796.5	797.8	804.0	814.0	821.4
20°	775.5	778.2	785.6	798.3	805.7
22.5°	752.4	755.4	764.6	779.9	789.1
25°	726.1	729.2	741.0	758.5	768.1
27.5°	696.4	701.2	714.3	733.6	746.7
30°	664.9	668.9	683.7	705.6	716.5
32.5°	631.3	636.1	650.1	671.1	680.7
35°	595.9	598.5	612.5	630.8	643.5
37.5°	555.6	557.0	570.1	587.1	598.5
40°	512.4	513.2	525.0	541.2	551.3
42.5°	467.3	467.8	480.4	492.7	501.4
45°	420.1	424.9	435.4	445.9	451.2
47.5°	377.7	381.2	390.8	400.0	404.8
50°	333.6	342.3	348.9	353.7	359.4
52.5°	295.5	303.0	304.7	310.4	315.2
55°	258.8	264.0	262.3	267.1	271.9
57.5°	227.8	225.1	219.5	227.8	233.9
60°	198.5	191.5	181.9	193.2	202.4
62.5°	172.2	160.9	149.1	160.4	175.7
65°	149.1	137.3	122.8	133.8	149.9
67.5°	131.6	119.3	102.3	113.2	129.4
70°	118.5	105.8	88.3	97.5	111.9
72.5°	108.0	94.4	79.1	85.2	97.5
75°	97.9	84.4	73.4	75.2	86.6
77.5°	86.1	76.1	67.3	66.4	75.2
80°	72.1	69.1	58.6	57.3	62.1
82.5°	59.5	58.1	48.1	46.8	48.5
85°	43.3	45.0	34.1	33.2	35.0
87.5°	22.7	24.9	17.9	18.8	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)