

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: P292420

Luminaire Tested: **22GR-LD5-20-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292420  
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-L93050-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1758.0 lumens  
Efficiency: N/A  
Efficacy: 111.9 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

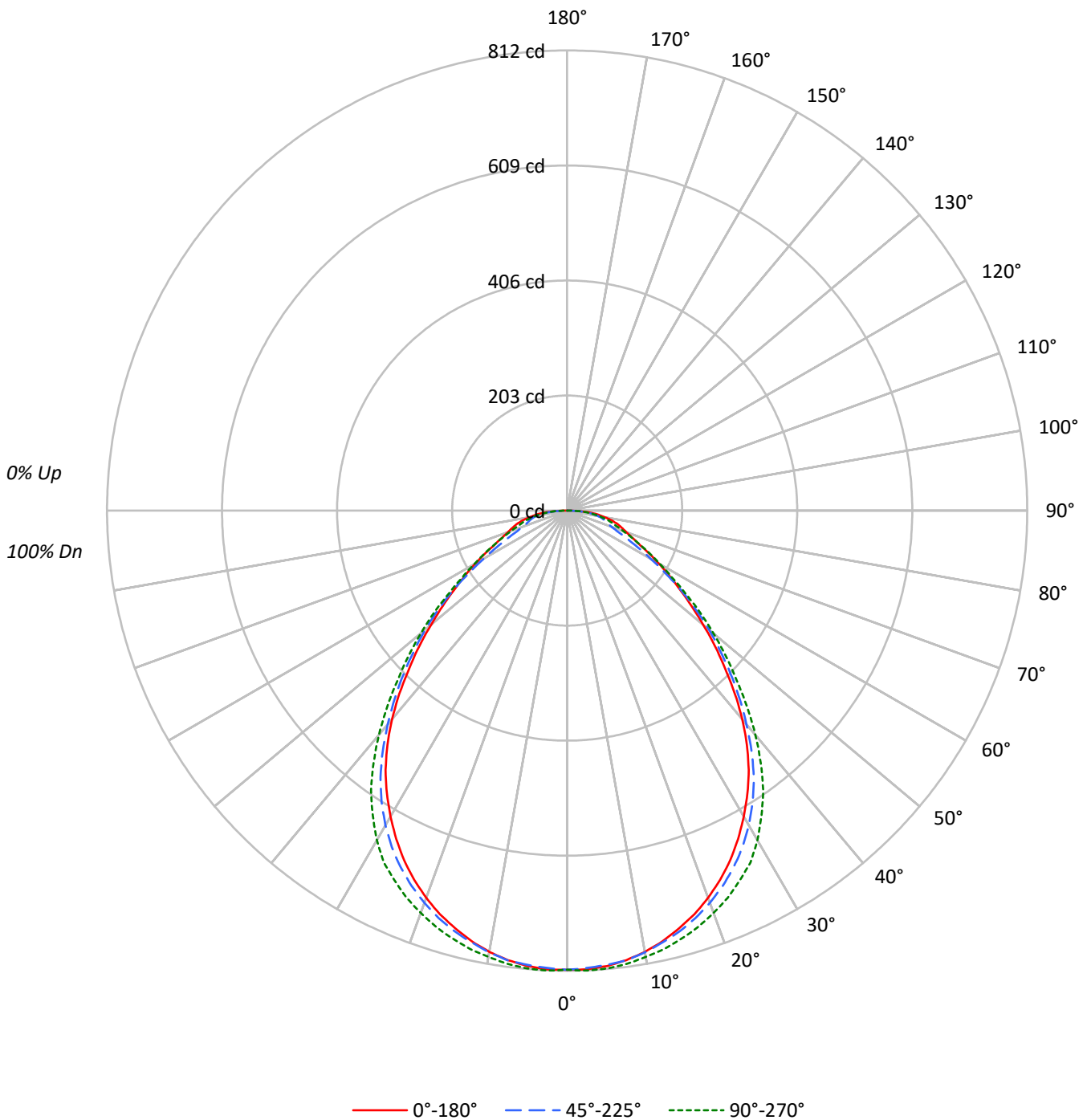
Input Watts (W): 15.717  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2181	2181	2181
5°	2179	2173	2191
10°	2161	2163	2185
15°	2126	2141	2178
20°	2082	2109	2163
25°	2021	2063	2138
30°	1937	1992	2087
35°	1835	1887	1982
40°	1688	1729	1816
45°	1499	1553	1610
50°	1309	1369	1410
55°	1139	1154	1196
60°	1002	918	1021
65°	890	734	895
70°	874	651	825
75°	954	716	844
80°	1048	851	902
85°	1254	988	1013



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	4.4
10°-20°	217.2	12.4
20°-30°	320.6	18.2
30°-40°	358.8	20.4
40°-50°	315.1	17.9
50°-60°	222.9	12.7
60°-70°	129.8	7.4
70°-80°	80.9	4.6
80°-90°	36.2	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°	614.4	34.9
0°-40°	973.2	55.4
0°-60°	1511.2	86.0
0°-90°	1758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1758.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	807	805	805	809	811	76
15°	763	765	768	777	782	215
25°	681	684	695	711	720	313
35°	559	561	574	592	603	347
45°	394	398	408	418	423	305
55°	243	248	246	250	255	219
65°	140	129	115	125	141	142
75°	92	79	69	70	81	96
85°	41	42	32	31	33	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	810.4	810.4	810.4	810.4	810.4
2.5°	810.4	808.7	807.9	810.8	812.4
5°	806.7	804.6	804.6	808.7	811.2
7.5°	800.1	798.1	800.5	804.2	806.7
10°	790.7	789.9	791.5	796.4	799.7
12.5°	778.4	778.8	780.4	788.2	792.3
15°	763.2	764.9	768.5	776.7	781.7
17.5°	746.8	748.0	753.8	763.2	770.2
20°	727.1	729.6	736.6	748.5	755.4
22.5°	705.4	708.3	716.9	731.2	739.8
25°	680.8	683.7	694.8	711.2	720.2
27.5°	653.0	657.5	669.8	687.8	700.1
30°	623.4	627.1	641.1	661.6	671.8
32.5°	591.9	596.4	609.5	629.2	638.2
35°	558.7	561.1	574.3	591.5	603.4
37.5°	521.0	522.2	534.5	550.5	561.1
40°	480.4	481.2	492.3	507.4	516.9
42.5°	438.2	438.6	450.5	461.9	470.1
45°	393.9	398.4	408.2	418.1	423.0
47.5°	354.1	357.4	366.4	375.0	379.6
50°	312.7	320.9	327.1	331.6	336.9
52.5°	277.1	284.1	285.7	291.0	295.5
55°	242.7	247.6	245.9	250.4	255.0
57.5°	213.6	211.1	205.8	213.6	219.3
60°	186.1	179.5	170.5	181.2	189.8
62.5°	161.5	150.8	139.8	150.4	164.8
65°	139.8	128.7	115.2	125.4	140.6
67.5°	123.4	111.9	95.9	106.2	121.3
70°	111.1	99.2	82.8	91.4	104.9
72.5°	101.2	88.5	74.2	79.9	91.4
75°	91.8	79.1	68.9	70.5	81.2
77.5°	80.7	71.3	63.1	62.3	70.5
80°	67.6	64.8	54.9	53.7	58.2
82.5°	55.7	54.5	45.1	43.9	45.5
85°	40.6	42.2	32.0	31.2	32.8
87.5°	21.3	23.4	16.8	17.6	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)