

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: P476109

Luminaire Tested: **22GR-LD5-20-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476109  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-20-A125-UNV-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2094.3 lumens  
Efficiency: N/A  
Efficacy: 138.7 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

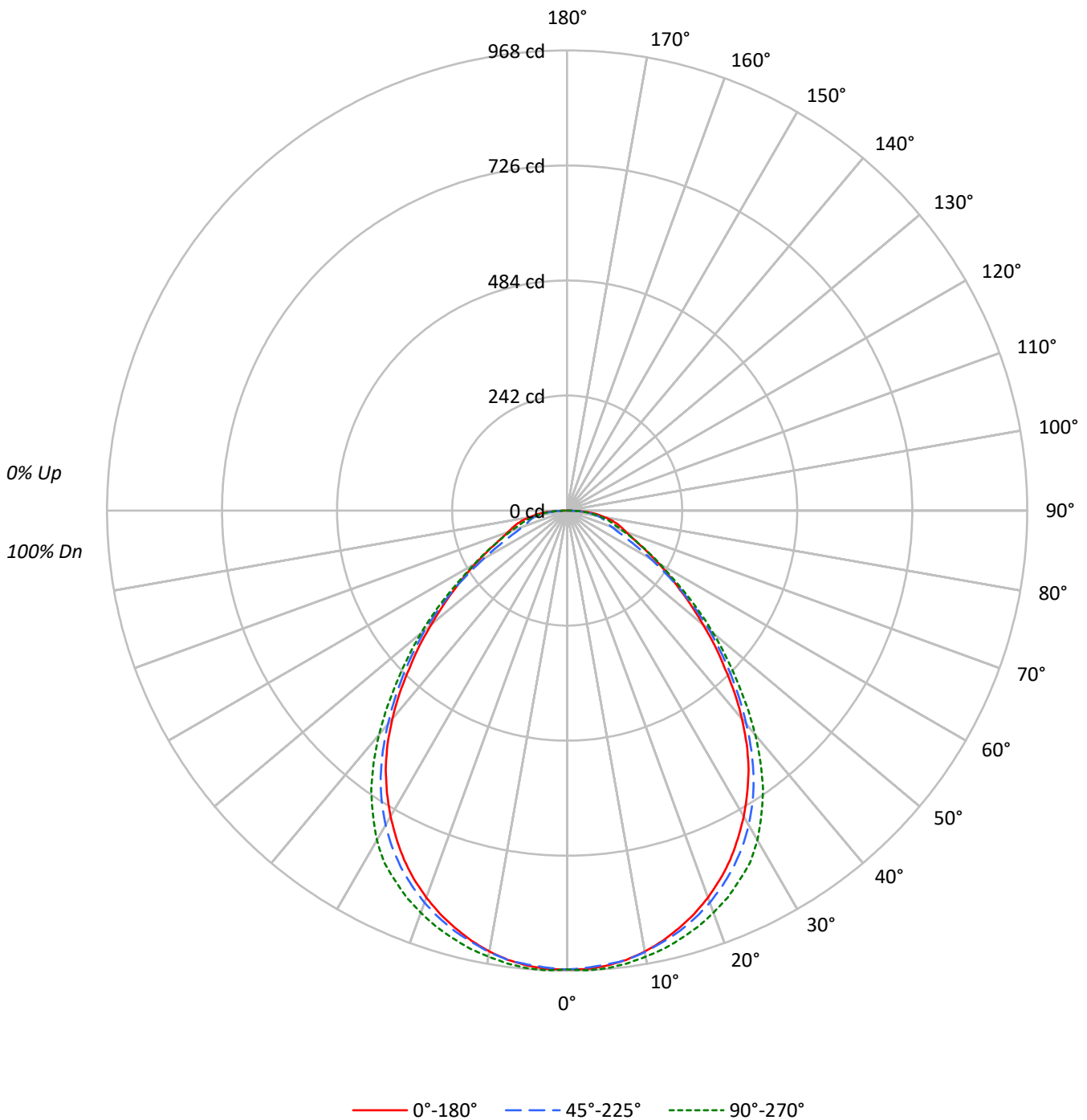
Input Watts (W): 15.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2598	2598	2598
5°	2596	2589	2610
10°	2574	2576	2603
15°	2533	2551	2594
20°	2481	2513	2577
25°	2408	2457	2548
30°	2308	2373	2487
35°	2186	2247	2361
40°	2010	2060	2163
45°	1786	1851	1918
50°	1560	1631	1680
55°	1356	1375	1425
60°	1193	1093	1217
65°	1060	874	1066
70°	1041	776	984
75°	1137	853	1004
80°	1249	1013	1075
85°	1491	1176	1204



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.2	4.4
10°-20°	258.7	12.4
20°-30°	382.0	18.2
30°-40°	427.4	20.4
40°-50°	375.3	17.9
50°-60°	265.6	12.7
60°-70°	154.6	7.4
70°-80°	96.3	4.6
80°-90°	43.1	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°	731.9	34.9
0°-40°	1159.3	55.4
0°-60°	1800.2	86.0
0°-90°	2094.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2094.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	961	958	958	963	966	91
15°	909	911	916	925	931	256
25°	811	814	828	847	858	373
35°	666	668	684	705	719	414
45°	469	475	486	498	504	363
55°	289	295	293	298	304	261
65°	166	153	137	150	167	169
75°	109	94	82	84	97	114
85°	48	50	38	37	39	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	965.3	965.3	965.3	965.3	965.3
2.5°	965.3	963.4	962.4	965.9	967.8
5°	960.9	958.5	958.5	963.4	966.4
7.5°	953.2	950.7	953.6	958.0	960.9
10°	942.0	940.9	942.9	948.8	952.7
12.5°	927.2	927.7	929.7	939.0	943.9
15°	909.1	911.1	915.6	925.3	931.1
17.5°	889.6	891.2	897.9	909.1	917.5
20°	866.2	869.1	877.5	891.6	900.0
22.5°	840.3	843.8	854.0	871.2	881.4
25°	811.1	814.4	827.6	847.1	858.0
27.5°	777.9	783.2	797.9	819.4	834.0
30°	742.7	747.1	763.7	788.1	800.4
32.5°	705.1	710.4	726.1	749.5	760.3
35°	665.5	668.5	684.1	704.6	718.7
37.5°	620.7	622.1	636.7	655.8	668.5
40°	572.3	573.2	586.4	604.5	615.7
42.5°	521.9	522.5	536.7	550.2	560.1
45°	469.2	474.7	486.3	498.0	503.9
47.5°	421.8	425.8	436.5	446.8	452.2
50°	372.6	382.3	389.7	395.1	401.4
52.5°	330.1	338.4	340.3	346.6	352.1
55°	289.0	295.0	293.0	298.3	303.7
57.5°	254.4	251.4	245.1	254.4	261.2
60°	221.7	213.8	203.1	215.9	226.1
62.5°	192.4	179.7	166.5	179.2	196.2
65°	166.5	153.4	137.2	149.5	167.4
67.5°	147.0	133.3	114.2	126.5	144.6
70°	132.3	118.2	98.6	108.9	125.1
72.5°	120.7	105.4	88.4	95.2	108.9
75°	109.4	94.2	82.0	84.0	96.6
77.5°	96.2	85.0	75.2	74.2	84.0
80°	80.6	77.1	65.4	64.0	69.4
82.5°	66.4	65.0	53.7	52.2	54.3
85°	48.3	50.3	38.1	37.1	39.0
87.5°	25.5	27.8	20.0	21.1	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)