

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: P475818

Luminaire Tested: **24GR-LD5-130-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475818  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-130-A125-UNV-L850-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13304.2 lumens  
Efficiency: N/A  
Efficacy: 150.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

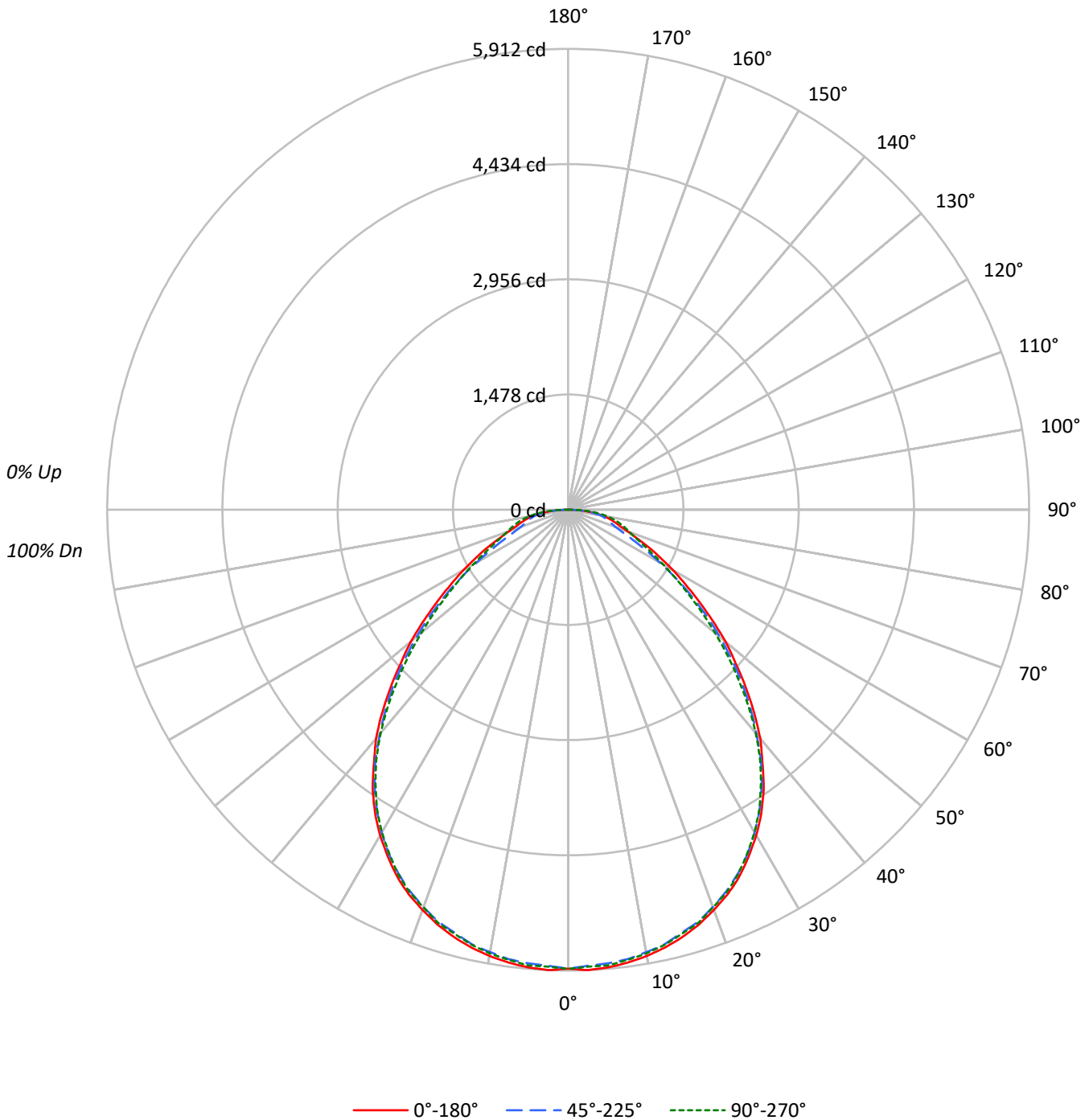
Input Watts (W): 88.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73					73			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63					63			
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

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

	0°	45°	90°
0°	7923	7923	7923
5°	7960	7891	7925
10°	7943	7874	7896
15°	7904	7827	7845
20°	7823	7768	7772
25°	7710	7648	7660
30°	7496	7429	7425
35°	7182	7110	7076
40°	6730	6598	6570
45°	6126	6003	5888
50°	5516	5320	5146
55°	4786	4526	4390
60°	4179	3648	3775
65°	3616	2900	3357
70°	3190	2542	3277
75°	3202	2764	3585
80°	3508	3284	4059
85°	3697	3575	4653



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.5	4.2
10°-20°	1590.2	12.0
20°-30°	2370.9	17.8
30°-40°	2695.2	20.3
40°-50°	2429.0	18.3
50°-60°	1749.6	13.2
60°-70°	1017.7	7.6
70°-80°	622.7	4.7
80°-90°	272.5	2.0
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°	4517.6	34.0
0°-40°	7212.8	54.2
0°-60°	11391.4	85.6
0°-90°	13304.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13304.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5888	5888	5888	5888	5888	
5°	5894	5853	5842	5854	5868	560
15°	5674	5642	5619	5628	5632	1599
25°	5194	5162	5152	5144	5159	2386
35°	4372	4342	4329	4304	4308	2721
45°	3219	3182	3155	3106	3094	2483
55°	2040	1991	1930	1910	1872	1840
65°	1136	1021	911	982	1054	1136
75°	616	558	532	605	690	656
85°	240	237	232	315	301	254
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5888.5	5888.5	5888.5	5888.5	5888.5
2.5°	5912.2	5880.6	5854.3	5855.6	5868.8
5°	5893.8	5853.0	5842.5	5854.3	5867.5
7.5°	5860.9	5822.7	5816.1	5809.6	5825.4
10°	5813.5	5787.2	5763.5	5770.1	5779.3
12.5°	5750.3	5728.0	5710.9	5697.7	5717.4
15°	5674.0	5642.4	5618.7	5627.9	5631.9
17.5°	5577.9	5547.6	5541.1	5535.8	5555.5
20°	5463.4	5445.0	5425.2	5430.5	5427.9
22.5°	5342.3	5314.7	5298.9	5291.0	5312.1
25°	5193.6	5162.0	5151.5	5143.6	5159.4
27.5°	5012.0	4994.9	4980.4	4969.8	4971.2
30°	4825.1	4808.0	4781.6	4773.7	4779.0
32.5°	4610.5	4590.8	4567.1	4543.4	4560.5
35°	4372.3	4342.0	4328.9	4303.9	4307.8
37.5°	4090.6	4077.5	4065.6	4032.7	4043.3
40°	3831.4	3795.8	3756.3	3736.6	3740.5
42.5°	3531.3	3494.4	3462.8	3435.2	3422.0
45°	3219.3	3182.5	3154.9	3106.2	3094.3
47.5°	2908.7	2874.5	2844.2	2806.1	2771.8
50°	2635.0	2571.8	2541.5	2502.0	2458.6
52.5°	2327.0	2290.1	2230.9	2198.0	2158.5
55°	2040.1	1991.4	1929.5	1909.8	1871.6
57.5°	1782.1	1729.4	1638.6	1630.7	1629.4
60°	1553.1	1482.0	1355.7	1364.9	1403.0
62.5°	1330.6	1229.3	1114.8	1155.6	1212.2
65°	1135.9	1021.3	910.8	981.9	1054.3
67.5°	949.0	846.3	752.8	847.6	923.9
70°	810.8	725.2	646.2	747.6	833.1
72.5°	694.9	629.1	577.8	669.9	762.1
75°	616.0	558.1	531.7	605.4	689.7
77.5°	542.3	490.9	483.0	548.8	610.7
80°	452.8	417.2	423.8	490.9	523.8
82.5°	344.8	334.3	335.6	419.9	426.4
85°	239.5	236.9	231.6	314.6	301.4
87.5°	121.1	123.7	122.4	179.0	160.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)