

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: P475788

Luminaire Tested: **24GR-LD5-130-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475788
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-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13043.4 lumens
Efficiency: N/A
Efficacy: 147.1 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

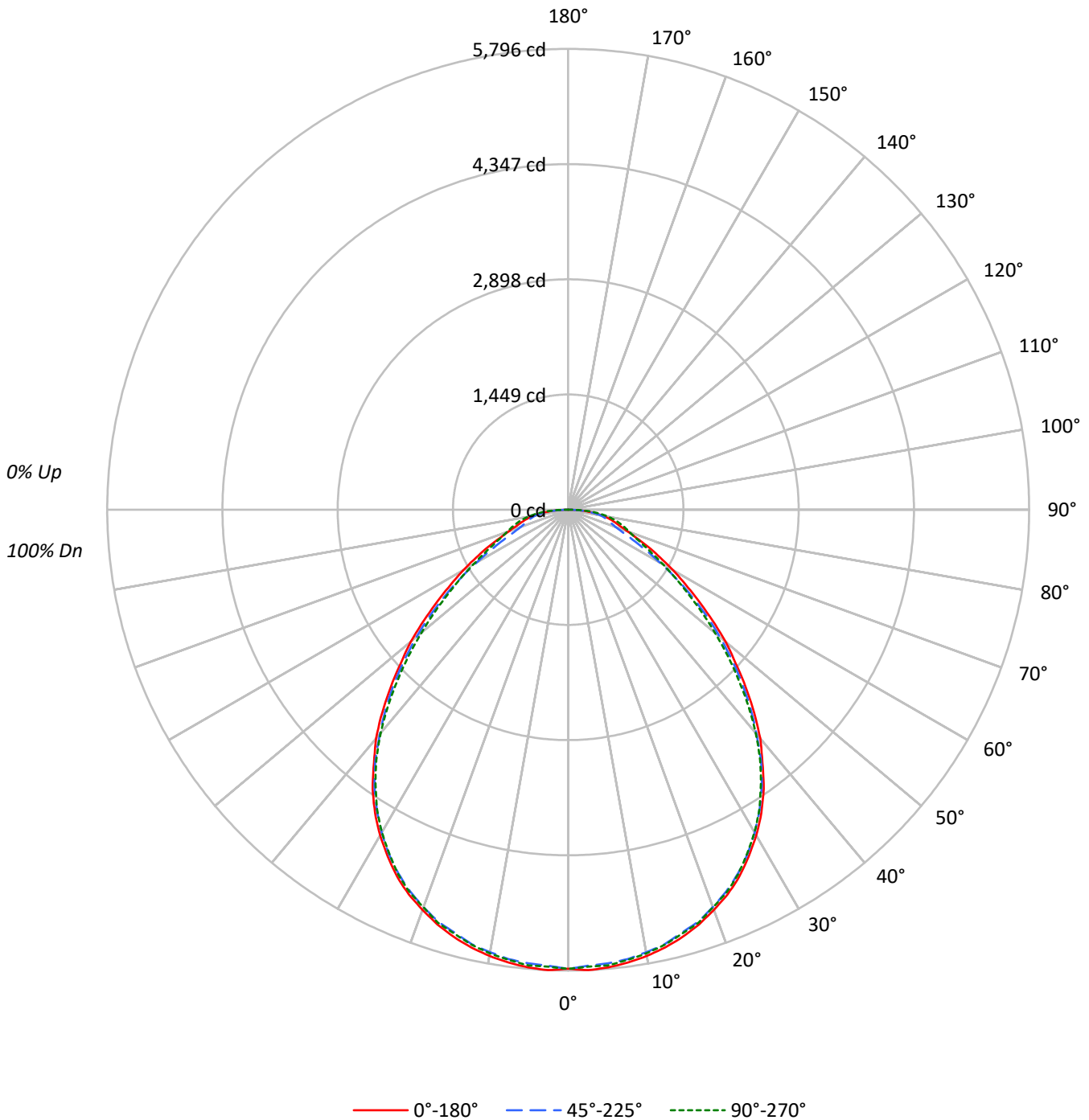
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7768	7768	7768
5°	7804	7736	7769
10°	7787	7720	7741
15°	7749	7673	7691
20°	7669	7616	7619
25°	7559	7498	7509
30°	7349	7283	7279
35°	7041	6971	6937
40°	6597	6468	6441
45°	6006	5885	5772
50°	5407	5216	5045
55°	4692	4438	4304
60°	4097	3577	3701
65°	3545	2843	3291
70°	3127	2493	3213
75°	3139	2710	3515
80°	3439	3219	3980
85°	3625	3506	4562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.6	4.2
10°-20°	1559.0	12.0
20°-30°	2324.4	17.8
30°-40°	2642.4	20.3
40°-50°	2381.4	18.3
50°-60°	1715.3	13.2
60°-70°	997.7	7.6
70°-80°	610.5	4.7
80°-90°	267.2	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°	4429.0	34.0
0°-40°	7071.4	54.2
0°-60°	11168.0	85.6
0°-90°	13043.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13043.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5773	5773	5773	5773	5773	
5°	5778	5738	5728	5740	5752	549
15°	5563	5532	5508	5518	5522	1568
25°	5092	5061	5050	5043	5058	2339
35°	4287	4257	4244	4220	4223	2667
45°	3156	3120	3093	3045	3034	2435
55°	2000	1952	1892	1872	1835	1803
65°	1114	1001	893	963	1034	1114
75°	604	547	521	594	676	643
85°	235	232	227	308	296	249
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5773.1	5773.1	5773.1	5773.1	5773.1
2.5°	5796.3	5765.3	5739.5	5740.8	5753.7
5°	5778.2	5738.2	5727.9	5739.5	5752.4
7.5°	5746.0	5708.6	5702.1	5695.7	5711.1
10°	5699.5	5673.7	5650.5	5656.9	5666.0
12.5°	5637.6	5615.6	5598.9	5586.0	5605.3
15°	5562.7	5531.8	5508.5	5517.6	5521.5
17.5°	5468.5	5438.9	5432.4	5427.3	5446.6
20°	5356.3	5338.2	5318.9	5324.0	5321.4
22.5°	5237.6	5210.5	5195.0	5187.2	5207.9
25°	5091.8	5060.8	5050.5	5042.7	5058.2
27.5°	4913.7	4896.9	4882.7	4872.4	4873.7
30°	4730.5	4713.7	4687.9	4680.1	4685.3
32.5°	4520.1	4500.8	4477.6	4454.3	4471.1
35°	4286.6	4256.9	4244.0	4219.5	4223.3
37.5°	4010.4	3997.5	3985.9	3953.7	3964.0
40°	3756.2	3721.4	3682.7	3663.3	3667.2
42.5°	3462.0	3425.9	3394.9	3367.8	3354.9
45°	3156.2	3120.1	3093.0	3045.3	3033.6
47.5°	2851.7	2818.1	2788.5	2751.0	2717.5
50°	2583.3	2521.4	2491.7	2453.0	2410.4
52.5°	2281.4	2245.2	2187.2	2154.9	2116.2
55°	2000.1	1952.3	1891.7	1872.3	1834.9
57.5°	1747.1	1695.5	1606.5	1598.8	1597.5
60°	1522.6	1452.9	1329.1	1338.1	1375.5
62.5°	1304.6	1205.2	1092.9	1132.9	1188.4
65°	1113.6	1001.3	892.9	962.6	1033.6
67.5°	930.3	829.7	738.1	831.0	905.8
70°	794.9	711.0	633.6	732.9	816.8
72.5°	681.3	616.8	566.5	656.8	747.1
75°	603.9	547.1	521.3	593.6	676.1
77.5°	531.6	481.3	473.6	538.1	598.7
80°	443.9	409.0	415.5	481.3	513.6
82.5°	338.1	327.8	329.0	411.6	418.1
85°	234.8	232.3	227.1	308.4	295.5
87.5°	118.7	121.3	120.0	175.5	157.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)