

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: P475769

Luminaire Tested: **24GR-LD5-85-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475769
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A125-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8273.4 lumens
Efficiency: N/A
Efficacy: 139.8 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

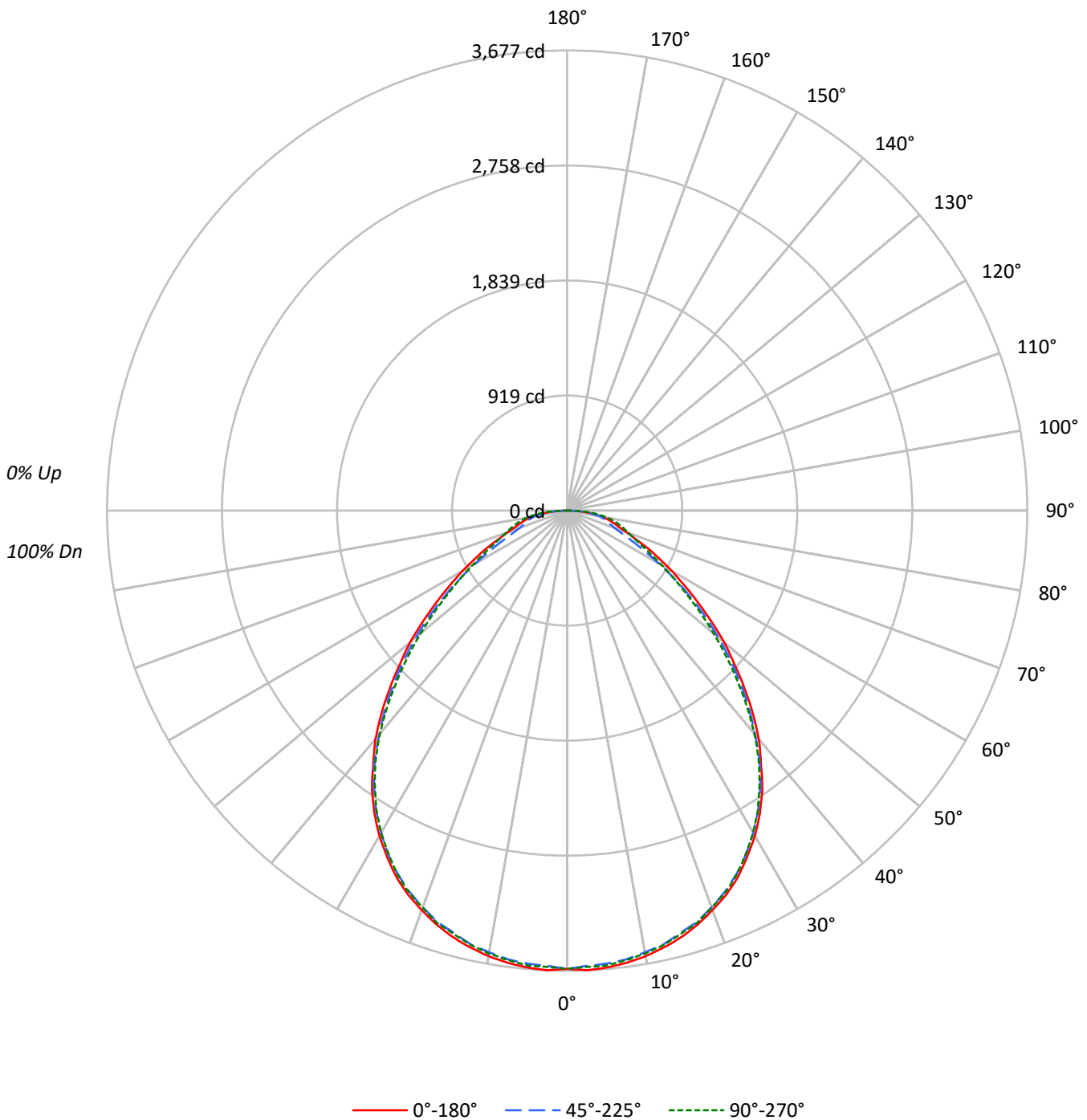
Input Watts (W): 59.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4927	4927	4927
5°	4950	4907	4928
10°	4939	4897	4910
15°	4915	4867	4878
20°	4865	4831	4833
25°	4795	4756	4763
30°	4662	4620	4617
35°	4466	4422	4400
40°	4185	4103	4086
45°	3809	3733	3661
50°	3430	3308	3200
55°	2976	2815	2730
60°	2599	2268	2348
65°	2249	1803	2087
70°	1983	1581	2038
75°	1991	1719	2230
80°	2182	2042	2524
85°	2300	2225	2893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.1	4.2
10°-20°	988.9	12.0
20°-30°	1474.4	17.8
30°-40°	1676.0	20.3
40°-50°	1510.5	18.3
50°-60°	1088.0	13.2
60°-70°	632.9	7.6
70°-80°	387.2	4.7
80°-90°	169.5	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°	2809.3	34.0
0°-40°	4485.4	54.2
0°-60°	7083.8	85.6
0°-90°	8273.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8273.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3662	3662	3662	3662	3662	
5°	3665	3640	3633	3641	3649	348
15°	3528	3509	3494	3500	3502	995
25°	3230	3210	3204	3199	3208	1484
35°	2719	2700	2692	2676	2679	1692
45°	2002	1979	1962	1932	1924	1544
55°	1269	1238	1200	1188	1164	1144
65°	706	635	566	611	656	706
75°	383	347	331	376	429	408
85°	149	147	144	196	187	158
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3661.8	3661.8	3661.8	3661.8	3661.8
2.5°	3676.6	3656.9	3640.6	3641.4	3649.6
5°	3665.1	3639.7	3633.2	3640.6	3648.7
7.5°	3644.6	3620.9	3616.8	3612.7	3622.5
10°	3615.2	3598.8	3584.1	3588.2	3593.9
12.5°	3575.9	3562.0	3551.3	3543.2	3555.4
15°	3528.4	3508.8	3494.0	3499.8	3502.2
17.5°	3468.7	3449.9	3445.8	3442.5	3454.8
20°	3397.5	3386.0	3373.7	3377.0	3375.4
22.5°	3322.2	3305.0	3295.2	3290.2	3303.3
25°	3229.7	3210.0	3203.5	3198.6	3208.4
27.5°	3116.7	3106.1	3097.1	3090.5	3091.4
30°	3000.5	2989.9	2973.5	2968.6	2971.9
32.5°	2867.1	2854.8	2840.1	2825.4	2836.0
35°	2719.0	2700.1	2691.9	2676.4	2678.9
37.5°	2543.8	2535.6	2528.3	2507.8	2514.3
40°	2382.6	2360.5	2335.9	2323.6	2326.1
42.5°	2196.0	2173.0	2153.4	2136.2	2128.0
45°	2002.0	1979.1	1961.9	1931.6	1924.2
47.5°	1808.8	1787.5	1768.7	1745.0	1723.7
50°	1638.6	1599.3	1580.5	1555.9	1528.9
52.5°	1447.1	1424.1	1387.3	1366.8	1342.3
55°	1268.6	1238.3	1199.9	1187.6	1163.9
57.5°	1108.2	1075.5	1019.0	1014.1	1013.3
60°	965.8	921.6	843.0	848.8	872.5
62.5°	827.5	764.5	693.2	718.6	753.8
65°	706.3	635.1	566.4	610.6	655.6
67.5°	590.1	526.3	468.2	527.1	574.6
70°	504.2	451.0	401.9	464.9	518.1
72.5°	432.2	391.2	359.3	416.6	473.9
75°	383.0	347.0	330.7	376.5	428.9
77.5°	337.2	305.3	300.4	341.3	379.8
80°	281.6	259.5	263.5	305.3	325.8
82.5°	214.4	207.9	208.7	261.1	265.2
85°	149.0	147.3	144.1	195.6	187.4
87.5°	75.3	76.9	76.1	111.3	99.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)