

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: P475815

Luminaire Tested: **24GR-LD5-90-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475815
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-90-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: 9227.3 lumens
Efficiency: N/A
Efficacy: 150.8 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

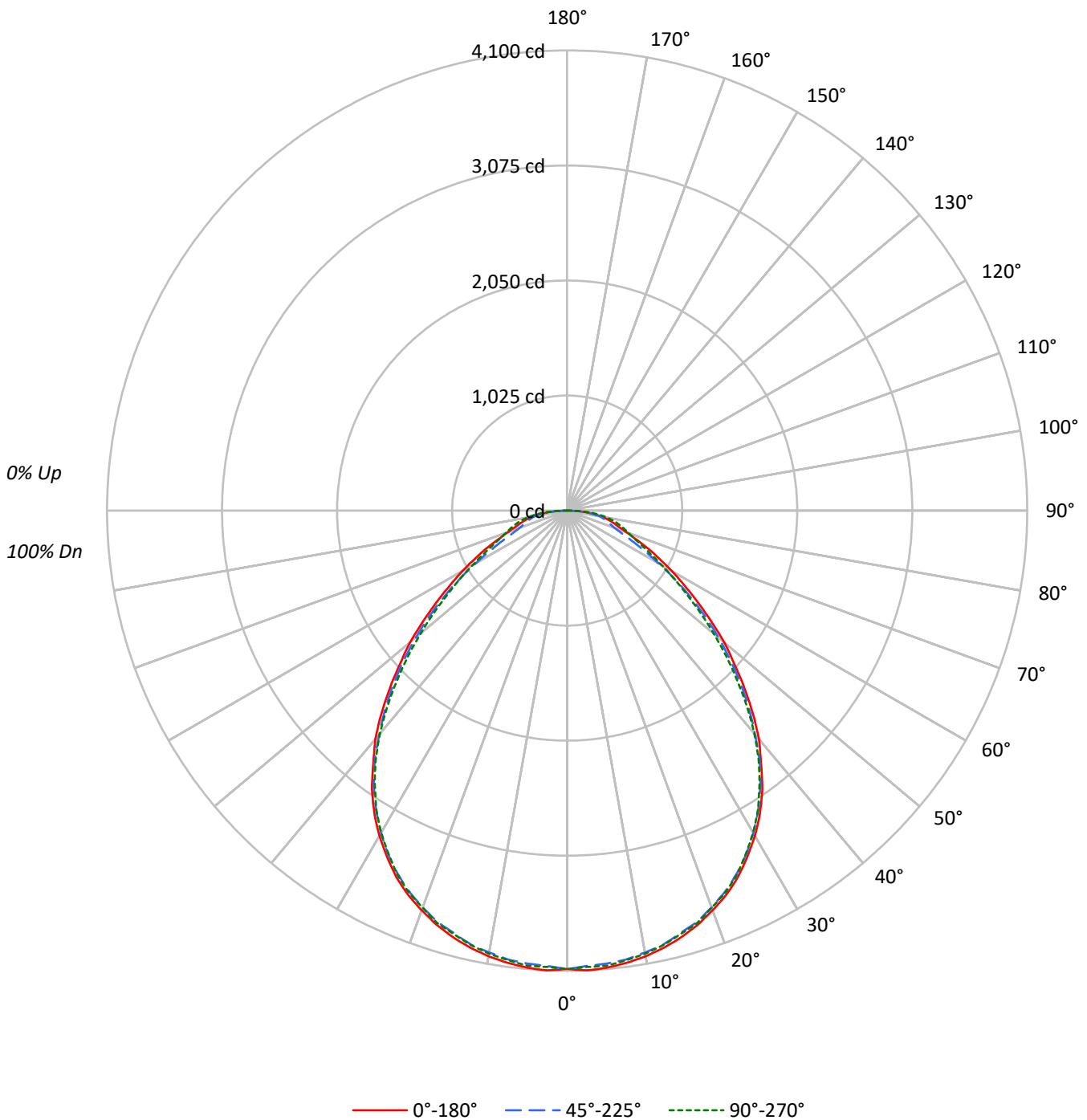
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5495	5495	5495
5°	5521	5473	5496
10°	5509	5461	5476
15°	5482	5428	5441
20°	5426	5388	5390
25°	5348	5304	5312
30°	5199	5152	5150
35°	4981	4931	4907
40°	4667	4576	4557
45°	4249	4164	4084
50°	3825	3690	3569
55°	3319	3139	3045
60°	2898	2530	2619
65°	2508	2011	2328
70°	2212	1763	2273
75°	2221	1917	2486
80°	2433	2277	2815
85°	2564	2481	3226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.0	4.2
10°-20°	1102.9	12.0
20°-30°	1644.4	17.8
30°-40°	1869.3	20.3
40°-50°	1684.6	18.3
50°-60°	1213.4	13.2
60°-70°	705.8	7.6
70°-80°	431.9	4.7
80°-90°	189.0	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°	3133.2	34.0
0°-40°	5002.5	54.2
0°-60°	7900.6	85.6
0°-90°	9227.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9227.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4084	4084	4084	4084	4084	
5°	4088	4059	4052	4060	4069	388
15°	3935	3913	3897	3903	3906	1109
25°	3602	3580	3573	3567	3578	1655
35°	3032	3012	3002	2985	2988	1887
45°	2233	2207	2188	2154	2146	1722
55°	1415	1381	1338	1324	1298	1276
65°	788	708	632	681	731	788
75°	427	387	369	420	478	455
85°	166	164	161	218	209	176
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4084.0	4084.0	4084.0	4084.0	4084.0
2.5°	4100.5	4078.6	4060.3	4061.2	4070.3
5°	4087.7	4059.4	4052.1	4060.3	4069.4
7.5°	4064.9	4038.4	4033.8	4029.3	4040.2
10°	4032.0	4013.7	3997.3	4001.9	4008.3
12.5°	3988.2	3972.7	3960.8	3951.7	3965.4
15°	3935.2	3913.3	3896.9	3903.3	3906.0
17.5°	3868.6	3847.6	3843.0	3839.4	3853.1
20°	3789.2	3776.4	3762.7	3766.4	3764.5
22.5°	3705.2	3686.0	3675.1	3669.6	3684.2
25°	3602.1	3580.1	3572.8	3567.4	3578.3
27.5°	3476.1	3464.2	3454.2	3446.9	3447.8
30°	3346.5	3334.6	3316.3	3310.9	3314.5
32.5°	3197.7	3184.0	3167.5	3151.1	3163.0
35°	3032.4	3011.5	3002.3	2985.0	2987.7
37.5°	2837.1	2828.0	2819.8	2796.9	2804.2
40°	2657.3	2632.6	2605.2	2591.5	2594.3
42.5°	2449.1	2423.6	2401.7	2382.5	2373.4
45°	2232.8	2207.2	2188.1	2154.3	2146.1
47.5°	2017.4	1993.6	1972.6	1946.2	1922.4
50°	1827.5	1783.7	1762.7	1735.3	1705.2
52.5°	1613.9	1588.3	1547.3	1524.4	1497.1
55°	1414.9	1381.1	1338.2	1324.5	1298.1
57.5°	1236.0	1199.5	1136.5	1131.0	1130.1
60°	1077.1	1027.9	940.2	946.6	973.1
62.5°	922.9	852.6	773.2	801.5	840.7
65°	787.8	708.4	631.7	681.0	731.2
67.5°	658.2	587.0	522.1	587.9	640.8
70°	562.3	503.0	448.2	518.5	577.8
72.5°	482.0	436.3	400.7	464.6	528.5
75°	427.2	387.0	368.8	419.9	478.3
77.5°	376.1	340.5	335.0	380.7	423.6
80°	314.0	289.4	293.9	340.5	363.3
82.5°	239.2	231.9	232.8	291.2	295.8
85°	166.1	164.3	160.7	218.2	209.0
87.5°	84.0	85.8	84.9	124.1	111.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)