

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: P475814

Luminaire Tested: **24GR-LD5-85-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475814
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-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: 8744.9 lumens
Efficiency: N/A
Efficacy: 147.7 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

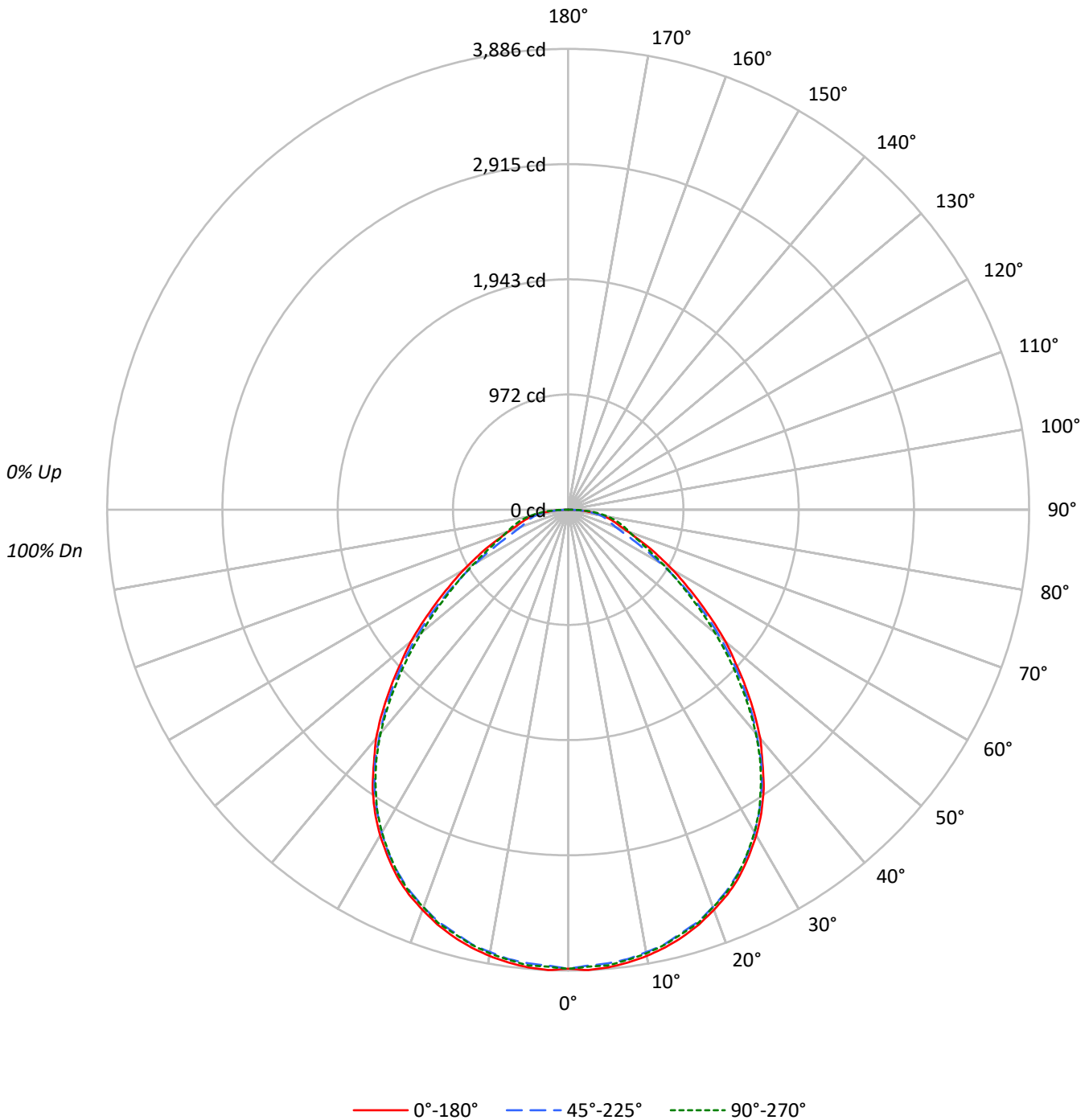
Input Watts (W): 59.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5208	5208	5208
5°	5232	5187	5209
10°	5221	5176	5190
15°	5195	5144	5156
20°	5142	5106	5108
25°	5068	5027	5035
30°	4927	4883	4880
35°	4720	4674	4651
40°	4423	4337	4318
45°	4027	3946	3870
50°	3625	3497	3383
55°	3145	2975	2886
60°	2747	2398	2482
65°	2377	1906	2206
70°	2096	1671	2154
75°	2105	1817	2357
80°	2306	2159	2668
85°	2431	2351	3058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.8	4.2
10°-20°	1045.2	12.0
20°-30°	1558.4	17.8
30°-40°	1771.6	20.3
40°-50°	1596.6	18.3
50°-60°	1150.0	13.2
60°-70°	668.9	7.6
70°-80°	409.3	4.7
80°-90°	179.1	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°	2969.4	34.0
0°-40°	4741.0	54.2
0°-60°	7487.6	85.6
0°-90°	8744.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8744.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3870	3870	3870	3870	3870	
5°	3874	3847	3840	3848	3857	368
15°	3730	3709	3693	3699	3702	1051
25°	3414	3393	3386	3381	3391	1568
35°	2874	2854	2845	2829	2832	1788
45°	2116	2092	2074	2042	2034	1632
55°	1341	1309	1268	1255	1230	1209
65°	747	671	599	645	693	747
75°	405	367	350	398	453	431
85°	158	156	152	207	198	167
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3870.5	3870.5	3870.5	3870.5	3870.5
2.5°	3886.1	3865.4	3848.0	3848.9	3857.6
5°	3874.0	3847.2	3840.3	3848.0	3856.7
7.5°	3852.4	3827.3	3823.0	3818.6	3829.0
10°	3821.2	3803.9	3788.4	3792.7	3798.7
12.5°	3779.7	3765.0	3753.7	3745.1	3758.1
15°	3729.5	3708.8	3693.2	3699.2	3701.8
17.5°	3666.4	3646.5	3642.1	3638.7	3651.7
20°	3591.1	3579.0	3566.0	3569.5	3567.7
22.5°	3511.5	3493.3	3483.0	3477.8	3491.6
25°	3413.8	3393.0	3386.1	3380.9	3391.3
27.5°	3294.4	3283.1	3273.6	3266.7	3267.6
30°	3171.5	3160.3	3143.0	3137.8	3141.2
32.5°	3030.5	3017.5	3002.0	2986.4	2997.6
35°	2873.9	2854.0	2845.4	2828.9	2831.5
37.5°	2688.8	2680.1	2672.4	2650.7	2657.6
40°	2518.4	2495.0	2469.0	2456.1	2458.7
42.5°	2321.1	2296.9	2276.1	2258.0	2249.3
45°	2116.1	2091.9	2073.7	2041.7	2033.9
47.5°	1911.9	1889.4	1869.5	1844.4	1821.9
50°	1732.0	1690.4	1670.5	1644.6	1616.0
52.5°	1529.5	1505.3	1466.4	1444.7	1418.8
55°	1340.9	1308.9	1268.3	1255.3	1230.2
57.5°	1171.4	1136.8	1077.1	1071.9	1071.0
60°	1020.8	974.1	891.1	897.1	922.2
62.5°	874.6	808.0	732.8	759.6	796.8
65°	746.6	671.3	598.7	645.4	693.0
67.5°	623.8	556.3	494.8	557.1	607.3
70°	532.9	476.7	424.8	491.4	547.6
72.5°	456.8	413.5	379.8	440.3	500.9
75°	404.9	366.8	349.5	398.0	453.3
77.5°	356.4	322.7	317.5	360.8	401.4
80°	297.6	274.2	278.6	322.7	344.3
82.5°	226.7	219.7	220.6	276.0	280.3
85°	157.5	155.7	152.3	206.8	198.1
87.5°	79.6	81.3	80.5	117.7	105.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)