

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: P293706

Luminaire Tested: **24GR-LD5-85-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A125-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8305.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

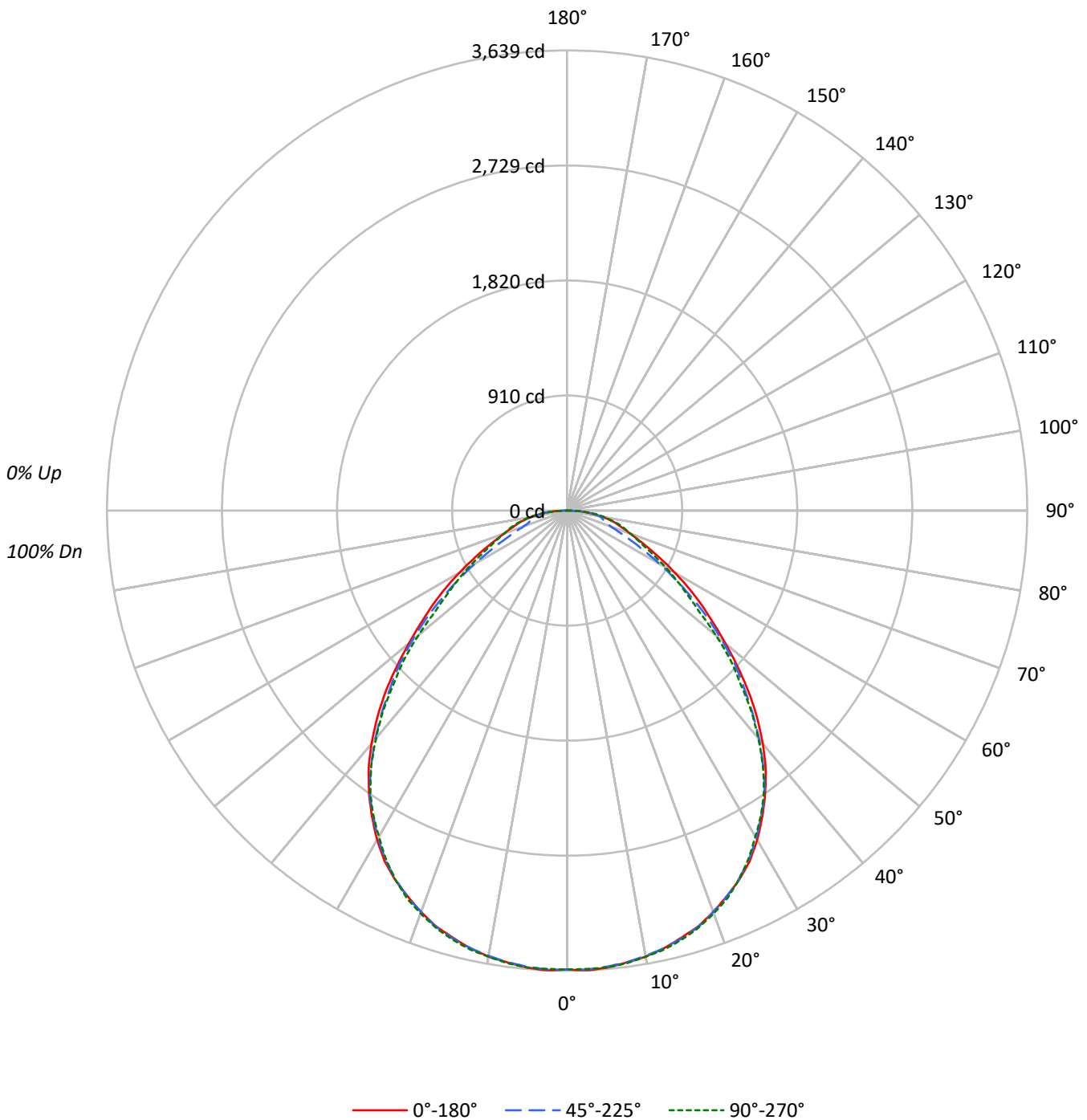
Input Watts (W): 62.403
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293706

CATALOG NUMBER: 24GR-LD5-85-A125-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P293706

CATALOG NUMBER: 24GR-LD5-85-A125-UNV-L83050-W2A1-U-3500K

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	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	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	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4883	4883	4883
5°	4900	4889	4898
10°	4893	4886	4894
15°	4869	4878	4891
20°	4836	4836	4855
25°	4782	4772	4776
30°	4670	4646	4624
35°	4486	4473	4456
40°	4226	4148	4130
45°	3866	3760	3690
50°	3417	3349	3219
55°	3039	2833	2723
60°	2646	2266	2430
65°	2285	1757	2149
70°	2085	1437	2079
75°	2101	1549	2209
80°	2188	2018	2329
85°	2280	2401	2580



TEST NUMBER: P293706

CATALOG NUMBER: 24GR-LD5-85-A125-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.2	4.1
10°-20°	987.3	11.9
20°-30°	1477.8	17.8
30°-40°	1688.7	20.3
40°-50°	1526.7	18.4
50°-60°	1098.4	13.2
60°-70°	636.8	7.7
70°-80°	377.7	4.5
80°-90°	167.3	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°	2809.4	33.8
0°-40°	4498.1	54.2
0°-60°	7123.2	85.8
0°-90°	8305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3629	3629	3629	3629	3629	
5°	3628	3622	3620	3615	3626	345
15°	3496	3502	3502	3498	3511	987
25°	3221	3217	3214	3208	3217	1481
35°	2731	2718	2723	2690	2713	1703
45°	2032	1996	1976	1958	1940	1561
55°	1296	1271	1208	1176	1161	1159
65°	718	637	552	617	675	725
75°	404	338	298	368	425	427
85°	148	159	156	179	167	158
90°	0	0	0	0	0	



TEST NUMBER: P293706

CATALOG NUMBER: 24GR-LD5-85-A125-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3629.0	3629.0	3629.0	3629.0	3629.0
2.5°	3639.4	3626.4	3632.9	3629.0	3627.7
5°	3627.7	3622.5	3619.9	3614.7	3626.4
7.5°	3604.4	3600.5	3601.8	3603.1	3610.9
10°	3581.1	3574.6	3575.9	3578.5	3582.4
12.5°	3544.8	3540.9	3542.2	3544.8	3553.9
15°	3495.5	3502.0	3502.0	3498.1	3511.1
17.5°	3446.3	3445.0	3451.5	3439.8	3458.0
20°	3377.6	3378.9	3377.6	3378.9	3390.6
22.5°	3299.9	3306.4	3302.5	3302.5	3315.5
25°	3220.9	3217.0	3214.4	3207.9	3217.0
27.5°	3126.3	3118.5	3112.0	3099.1	3105.6
30°	3005.8	3007.1	2990.3	2978.6	2976.0
32.5°	2871.1	2871.1	2855.5	2846.4	2854.2
35°	2731.1	2718.2	2723.4	2689.7	2713.0
37.5°	2579.6	2558.8	2547.2	2535.5	2543.3
40°	2405.9	2378.7	2361.9	2338.6	2351.5
42.5°	2223.3	2189.6	2168.8	2152.0	2157.2
45°	2031.5	1996.5	1975.8	1957.7	1939.5
47.5°	1829.4	1807.4	1797.0	1773.7	1753.0
50°	1632.5	1624.7	1600.1	1580.6	1537.9
52.5°	1452.4	1445.9	1407.0	1374.6	1320.2
55°	1295.6	1271.0	1207.5	1176.4	1160.9
57.5°	1136.2	1096.1	1019.6	1015.8	1026.1
60°	983.4	934.1	842.1	862.9	903.0
62.5°	844.7	770.9	682.8	732.0	780.0
65°	717.8	637.4	551.9	616.7	675.0
67.5°	612.8	532.5	444.4	531.2	598.6
70°	529.9	448.3	365.4	465.1	528.6
72.5°	461.2	387.4	318.7	413.3	479.4
75°	404.2	338.2	298.0	368.0	425.0
77.5°	347.2	294.1	285.0	327.8	362.8
80°	282.4	257.8	260.4	287.6	300.6
82.5°	211.2	212.5	219.0	241.0	235.8
85°	147.7	159.4	155.5	178.8	167.1
87.5°	81.6	89.4	84.2	102.4	92.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)