

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: P293327

Luminaire Tested: **24GR-LD5-85-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-F125-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6449.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

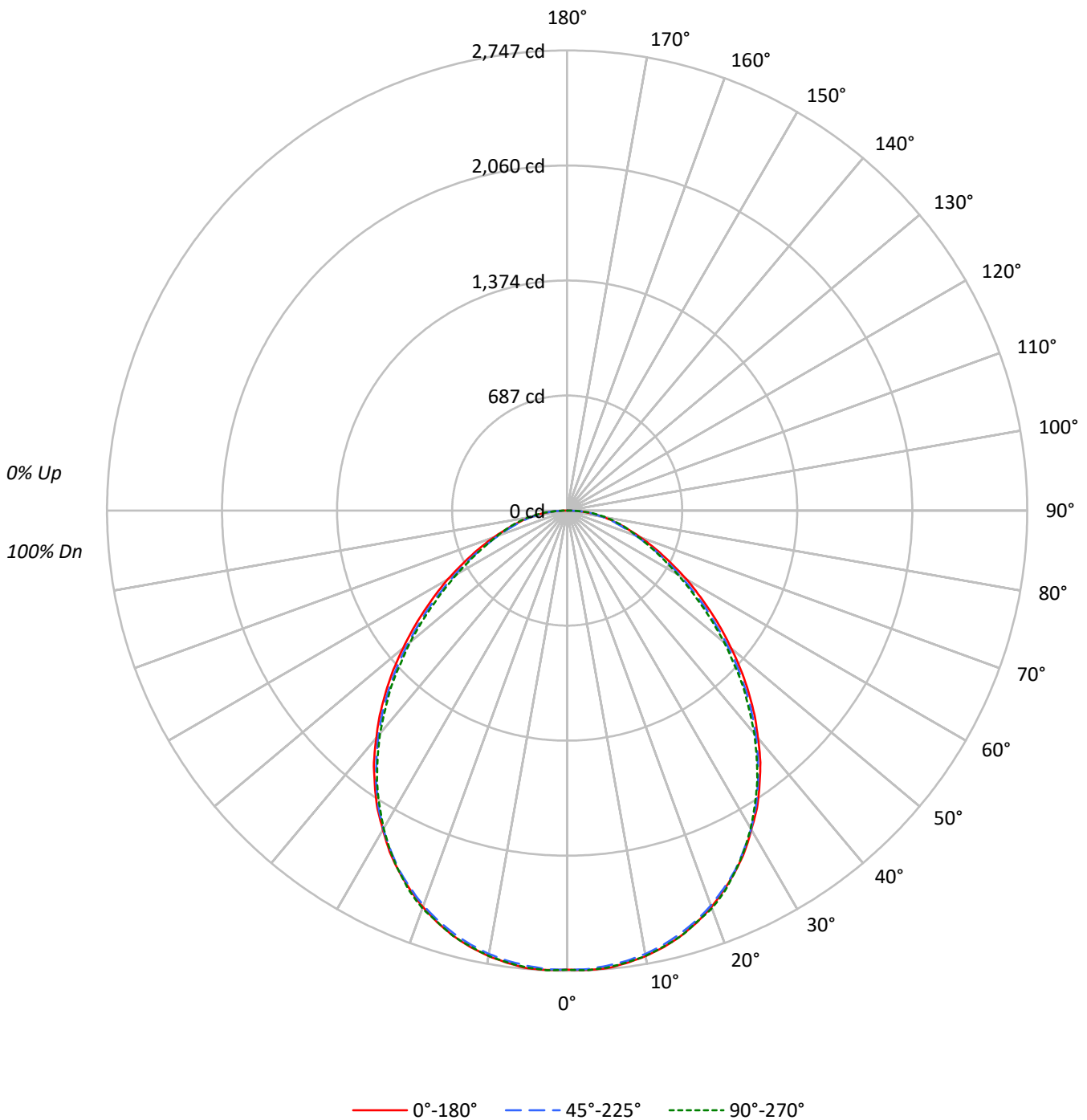
Input Watts (W): 63.838269
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293327

CATALOG NUMBER: 24GR-LD5-85-F125-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P293327

CATALOG NUMBER: 24GR-LD5-85-F125-UNV-L93050-W2A1-U-3000K

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3688	3688	3688
5°	3705	3684	3699
10°	3690	3672	3688
15°	3661	3641	3663
20°	3607	3592	3618
25°	3529	3520	3527
30°	3417	3411	3403
35°	3288	3263	3250
40°	3113	3077	3052
45°	2912	2858	2823
50°	2676	2604	2559
55°	2440	2350	2282
60°	2216	2097	2042
65°	1996	1884	1852
70°	1828	1709	1757
75°	1708	1630	1750
80°	1695	1664	1828
85°	1727	1743	1991



TEST NUMBER: P293327

CATALOG NUMBER: 24GR-LD5-85-F125-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	4.0
10°-20°	737.5	11.4
20°-30°	1089.5	16.9
30°-40°	1238.6	19.2
40°-50°	1156.7	17.9
50°-60°	899.5	13.9
60°-70°	596.9	9.3
70°-80°	345.4	5.4
80°-90°	125.6	1.9
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°	2086.3	32.4
0°-40°	3324.9	51.6
0°-60°	5381.1	83.4
0°-90°	6449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2741	2741	2741	2741	2741	
5°	2743	2729	2728	2733	2739	260
15°	2628	2615	2614	2613	2630	740
25°	2377	2367	2371	2366	2376	1093
35°	2002	1992	1987	1973	1979	1250
45°	1530	1518	1502	1483	1484	1179
55°	1040	1025	1002	976	973	933
65°	627	608	592	581	582	627
75°	329	321	314	328	337	352
85°	112	110	113	128	129	122
90°	0	0	0	0	0	



TEST NUMBER: P293327

CATALOG NUMBER: 24GR-LD5-85-F125-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2740.8	2740.8	2740.8	2740.8	2740.8
2.5°	2744.9	2736.8	2740.8	2737.8	2746.9
5°	2742.8	2728.7	2727.7	2732.8	2738.8
7.5°	2723.7	2708.6	2711.6	2711.6	2721.7
10°	2700.5	2685.4	2687.4	2688.4	2699.5
12.5°	2669.3	2654.1	2655.1	2654.1	2665.2
15°	2627.9	2614.8	2613.8	2612.8	2629.9
17.5°	2577.5	2559.4	2565.4	2566.4	2575.5
20°	2519.1	2504.9	2509.0	2508.0	2527.1
22.5°	2449.5	2439.4	2442.4	2440.4	2458.6
25°	2376.9	2366.8	2370.9	2365.8	2375.9
27.5°	2295.3	2288.2	2284.2	2281.2	2288.2
30°	2199.5	2195.5	2195.5	2182.4	2190.4
32.5°	2108.8	2095.7	2095.7	2090.6	2085.6
35°	2001.9	1991.9	1986.8	1972.7	1978.8
37.5°	1895.1	1871.9	1869.9	1858.8	1858.8
40°	1772.1	1759.0	1752.0	1739.9	1737.8
42.5°	1655.2	1642.1	1630.0	1609.8	1605.8
45°	1530.2	1518.1	1502.0	1482.8	1483.8
47.5°	1406.2	1389.1	1373.9	1350.8	1347.7
50°	1278.2	1266.1	1243.9	1223.7	1222.7
52.5°	1158.2	1139.1	1118.9	1094.7	1094.7
55°	1040.3	1025.2	1002.0	975.8	972.7
57.5°	927.4	913.3	887.1	867.9	862.9
60°	823.6	803.4	779.2	763.1	759.0
62.5°	719.7	701.6	683.4	667.3	666.3
65°	627.0	607.8	591.7	580.6	581.6
67.5°	543.3	527.2	509.1	506.0	507.0
70°	464.7	447.6	434.5	441.5	446.6
72.5°	390.1	381.0	372.0	382.0	389.1
75°	328.6	320.6	313.5	327.6	336.7
77.5°	272.2	266.1	265.1	277.2	285.3
80°	218.7	211.7	214.7	228.8	235.9
82.5°	166.3	161.3	162.3	179.4	184.5
85°	111.9	109.9	112.9	128.0	129.0
87.5°	59.5	59.5	61.5	70.6	67.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)