

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: P293407

Luminaire Tested: **24GR-LD5-85-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293407  
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-L92765-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7321.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 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

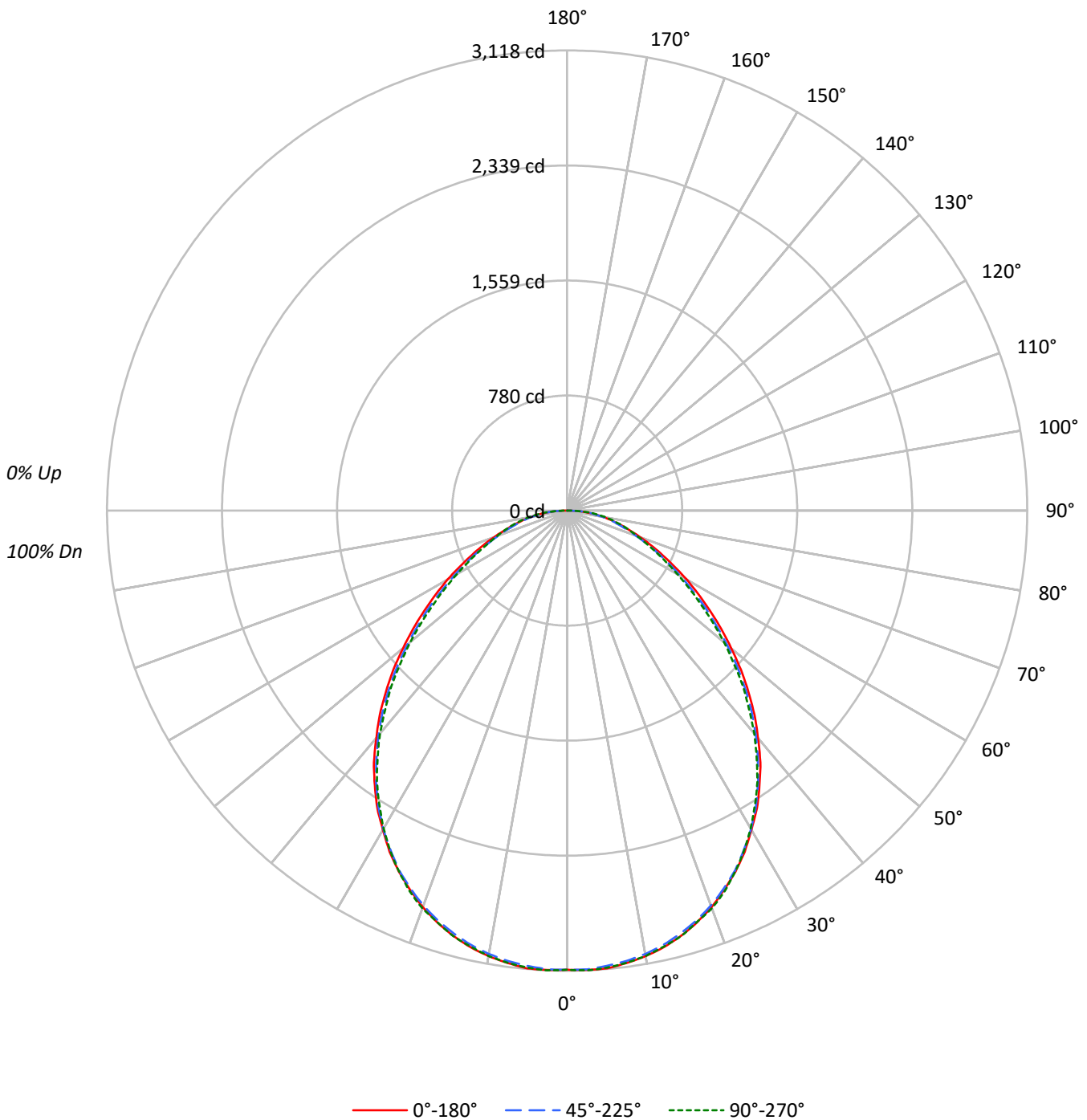
Input Watts (W): 63.147  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4186	4186	4186
5°	4205	4182	4199
10°	4188	4168	4187
15°	4156	4133	4159
20°	4095	4078	4108
25°	4006	3996	4004
30°	3879	3872	3863
35°	3733	3705	3690
40°	3533	3493	3465
45°	3305	3244	3205
50°	3037	2956	2906
55°	2770	2668	2590
60°	2516	2380	2319
65°	2266	2138	2102
70°	2075	1940	1994
75°	1940	1850	1987
80°	1924	1888	2075
85°	1961	1979	2262



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.5	4.0
10°-20°	837.2	11.4
20°-30°	1236.8	16.9
30°-40°	1406.1	19.2
40°-50°	1313.1	17.9
50°-60°	1021.2	13.9
60°-70°	677.6	9.3
70°-80°	392.1	5.4
80°-90°	142.6	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°	2368.4	32.4
0°-40°	3774.5	51.6
0°-60°	6108.7	83.4
0°-90°	7321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7321.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3111	3111	3111	3111	3111	
5°	3114	3098	3096	3102	3109	295
15°	2983	2968	2967	2966	2986	840
25°	2698	2687	2692	2686	2697	1241
35°	2273	2261	2256	2239	2246	1419
45°	1737	1723	1705	1683	1684	1338
55°	1181	1164	1138	1108	1104	1059
65°	712	690	672	659	660	711
75°	373	364	356	372	382	399
85°	127	125	128	145	146	138
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3111.4	3111.4	3111.4	3111.4	3111.4
2.5°	3116.0	3106.8	3111.4	3108.0	3118.3
5°	3113.7	3097.7	3096.5	3102.3	3109.1
7.5°	3092.0	3074.8	3078.2	3078.2	3089.7
10°	3065.7	3048.5	3050.8	3051.9	3064.5
12.5°	3030.2	3013.0	3014.2	3013.0	3025.6
15°	2983.3	2968.4	2967.2	2966.1	2985.5
17.5°	2926.0	2905.4	2912.3	2913.5	2923.8
20°	2859.7	2843.7	2848.2	2847.1	2868.8
22.5°	2780.7	2769.3	2772.7	2770.4	2791.0
25°	2698.3	2686.9	2691.5	2685.7	2697.2
27.5°	2605.6	2597.6	2593.0	2589.6	2597.6
30°	2496.9	2492.3	2492.3	2477.5	2486.6
32.5°	2393.9	2379.1	2379.1	2373.3	2367.6
35°	2272.6	2261.2	2255.5	2239.4	2246.3
37.5°	2151.3	2125.0	2122.7	2110.1	2110.1
40°	2011.7	1996.8	1988.8	1975.1	1972.8
42.5°	1879.0	1864.1	1850.4	1827.5	1822.9
45°	1737.1	1723.4	1705.0	1683.3	1684.4
47.5°	1596.3	1576.9	1559.7	1533.4	1530.0
50°	1451.0	1437.3	1412.1	1389.2	1388.1
52.5°	1314.8	1293.1	1270.2	1242.7	1242.7
55°	1180.9	1163.8	1137.5	1107.7	1104.3
57.5°	1052.8	1036.8	1007.0	985.3	979.5
60°	934.9	912.0	884.6	866.3	861.7
62.5°	817.0	796.5	775.9	757.5	756.4
65°	711.8	690.0	671.7	659.1	660.3
67.5°	616.8	598.5	577.9	574.5	575.6
70°	527.5	508.1	493.2	501.2	506.9
72.5°	442.9	432.6	422.3	433.7	441.7
75°	373.1	363.9	355.9	371.9	382.2
77.5°	309.0	302.1	301.0	314.7	323.8
80°	248.3	240.3	243.7	259.8	267.8
82.5°	188.8	183.1	184.2	203.7	209.4
85°	127.0	124.7	128.2	145.3	146.5
87.5°	67.5	67.5	69.8	80.1	76.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)