

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: P293194

Luminaire Tested: **24GR-LD5-64-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293194  
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-LD5-64-F125-UNV-L83050-W2A1-U-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6783.0 lumens  
Efficiency: N/A  
Efficacy: 140.8 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

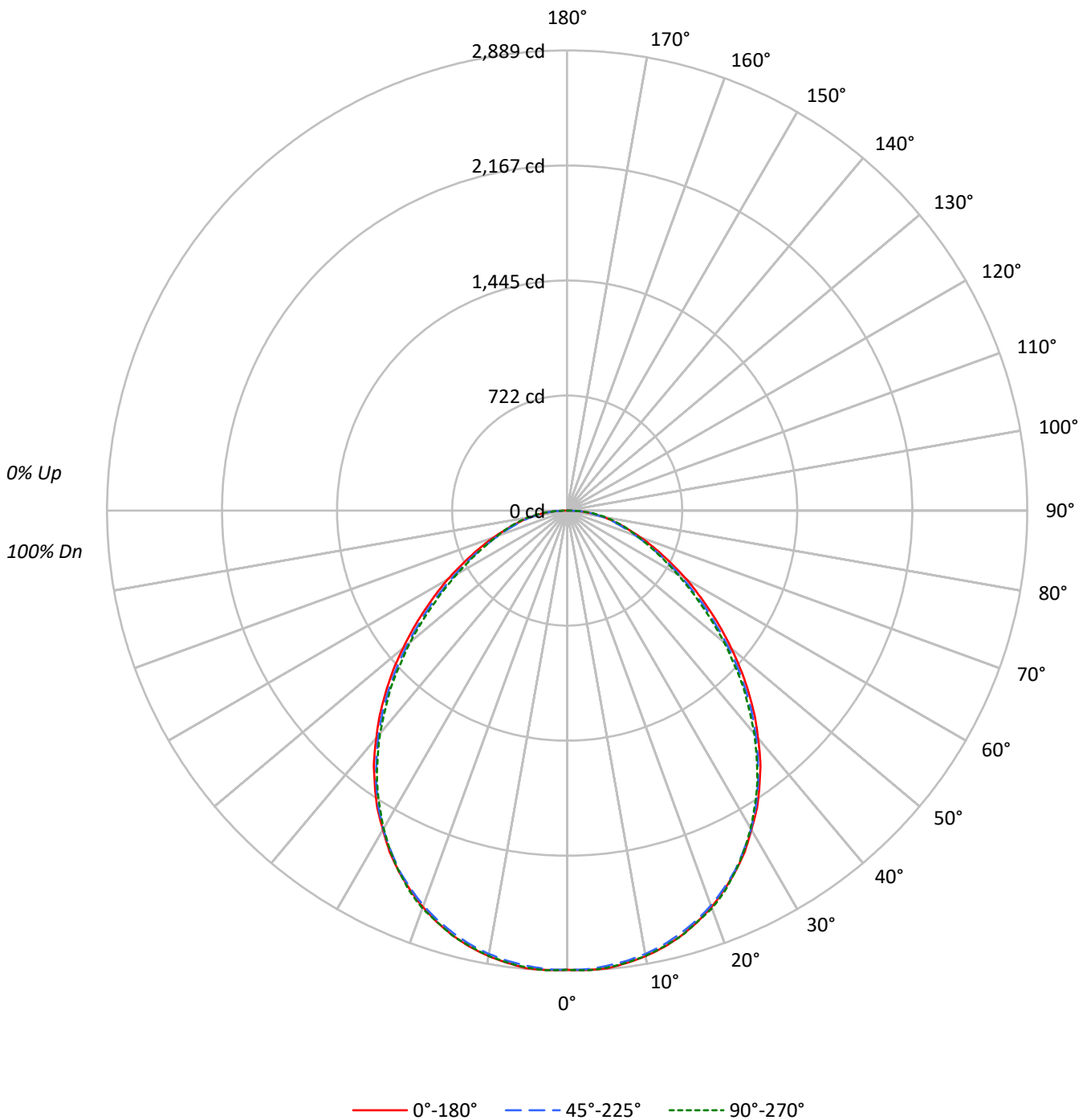
Input Watts (W): 48.174  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3879	3879	3879
5°	3896	3875	3891
10°	3881	3862	3879
15°	3850	3830	3853
20°	3794	3778	3806
25°	3711	3702	3710
30°	3594	3588	3579
35°	3459	3432	3418
40°	3274	3237	3210
45°	3062	3006	2970
50°	2814	2739	2692
55°	2567	2472	2400
60°	2331	2206	2148
65°	2100	1982	1948
70°	1923	1798	1848
75°	1797	1714	1841
80°	1783	1750	1922
85°	1817	1832	2095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.8	4.0
10°-20°	775.7	11.4
20°-30°	1145.9	16.9
30°-40°	1302.8	19.2
40°-50°	1216.6	17.9
50°-60°	946.1	13.9
60°-70°	627.8	9.3
70°-80°	363.3	5.4
80°-90°	132.1	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°	2194.4	32.4
0°-40°	3497.1	51.6
0°-60°	5659.8	83.4
0°-90°	6783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6783.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2883	2883	2883	2883	2883	
5°	2885	2870	2869	2874	2881	274
15°	2764	2750	2749	2748	2766	779
25°	2500	2489	2494	2488	2499	1149
35°	2106	2095	2090	2075	2081	1315
45°	1609	1597	1580	1560	1561	1240
55°	1094	1078	1054	1026	1023	981
65°	660	639	622	611	612	659
75°	346	337	330	345	354	370
85°	118	116	119	135	136	128
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2882.8	2882.8	2882.8	2882.8	2882.8
2.5°	2887.0	2878.5	2882.8	2879.6	2889.1
5°	2884.9	2870.1	2869.0	2874.3	2880.7
7.5°	2864.8	2848.8	2852.0	2852.0	2862.6
10°	2840.4	2824.5	2826.6	2827.6	2839.3
12.5°	2807.5	2791.6	2792.7	2791.6	2803.3
15°	2764.0	2750.2	2749.2	2748.1	2766.1
17.5°	2711.0	2691.9	2698.3	2699.4	2708.9
20°	2649.5	2634.7	2638.9	2637.9	2658.0
22.5°	2576.4	2565.8	2568.9	2566.8	2585.9
25°	2500.0	2489.4	2493.7	2488.4	2499.0
27.5°	2414.2	2406.7	2402.5	2399.3	2406.7
30°	2313.4	2309.2	2309.2	2295.4	2303.9
32.5°	2218.0	2204.2	2204.2	2198.9	2193.6
35°	2105.6	2095.0	2089.7	2074.9	2081.2
37.5°	1993.2	1968.9	1966.7	1955.1	1955.1
40°	1863.9	1850.1	1842.7	1830.0	1827.8
42.5°	1740.9	1727.1	1714.4	1693.2	1689.0
45°	1609.4	1596.7	1579.7	1559.6	1560.7
47.5°	1479.0	1461.0	1445.1	1420.7	1417.5
50°	1344.4	1331.7	1308.3	1287.1	1286.1
52.5°	1218.2	1198.1	1176.9	1151.4	1151.4
55°	1094.2	1078.3	1053.9	1026.3	1023.1
57.5°	975.4	960.6	933.0	912.9	907.6
60°	866.2	845.0	819.6	802.6	798.4
62.5°	757.0	737.9	718.8	701.9	700.8
65°	659.5	639.3	622.4	610.7	611.8
67.5°	571.5	554.5	535.4	532.2	533.3
70°	488.8	470.7	457.0	464.4	469.7
72.5°	410.3	400.8	391.2	401.8	409.3
75°	345.6	337.2	329.7	344.6	354.1
77.5°	286.3	279.9	278.8	291.6	300.0
80°	230.1	222.6	225.8	240.7	248.1
82.5°	174.9	169.6	170.7	188.7	194.0
85°	117.7	115.6	118.7	134.6	135.7
87.5°	62.6	62.6	64.7	74.2	71.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)