

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: P293261

Luminaire Tested: **24GR-LD5-64-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293261  
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-L82765-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6041.0 lumens  
Efficiency: N/A  
Efficacy: 132.3 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

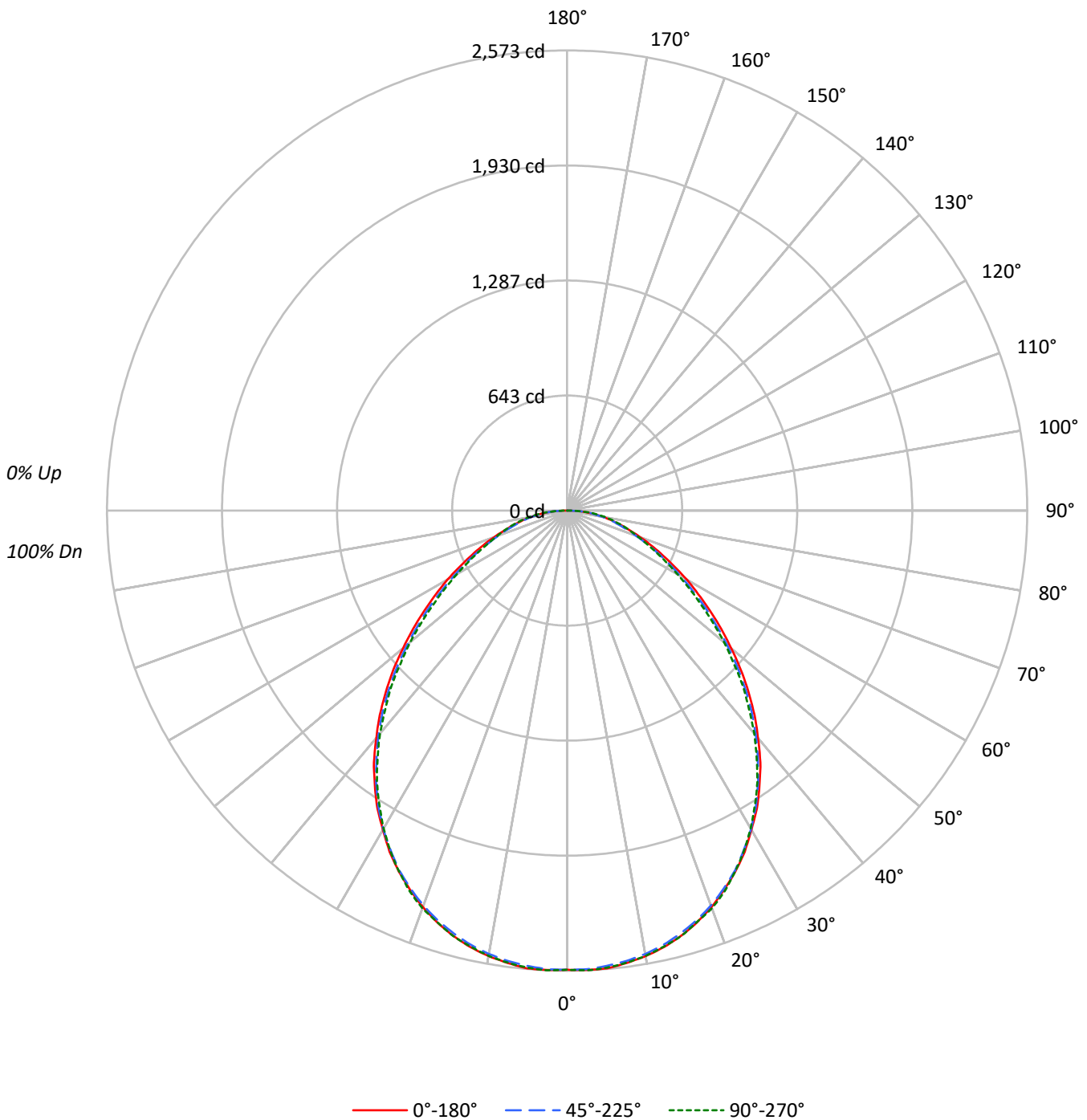
Input Watts (W): 45.663  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3454	3454	3454
5°	3470	3451	3465
10°	3456	3439	3455
15°	3429	3411	3432
20°	3379	3365	3389
25°	3305	3297	3304
30°	3201	3195	3188
35°	3080	3057	3045
40°	2916	2882	2859
45°	2727	2677	2645
50°	2506	2439	2398
55°	2286	2202	2137
60°	2076	1964	1913
65°	1870	1765	1734
70°	1712	1601	1646
75°	1600	1527	1640
80°	1588	1558	1712
85°	1618	1633	1866



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.0	4.0
10°-20°	690.8	11.4
20°-30°	1020.5	16.9
30°-40°	1160.3	19.2
40°-50°	1083.5	17.9
50°-60°	842.6	13.9
60°-70°	559.1	9.3
70°-80°	323.6	5.4
80°-90°	117.7	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°	1954.3	32.4
0°-40°	3114.6	51.6
0°-60°	5040.7	83.4
0°-90°	6041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6041.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2569	2556	2555	2560	2566	244
15°	2462	2449	2448	2448	2464	694
25°	2226	2217	2221	2216	2226	1024
35°	1875	1866	1861	1848	1854	1171
45°	1433	1422	1407	1389	1390	1104
55°	974	960	939	914	911	874
65°	587	569	554	544	545	587
75°	308	300	294	307	315	329
85°	105	103	106	120	121	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2567.4	2567.4	2567.4	2567.4	2567.4
2.5°	2571.2	2563.6	2567.4	2564.6	2573.1
5°	2569.3	2556.1	2555.1	2559.9	2565.5
7.5°	2551.4	2537.2	2540.0	2540.0	2549.5
10°	2529.7	2515.5	2517.4	2518.3	2528.7
12.5°	2500.4	2486.2	2487.2	2486.2	2496.6
15°	2461.7	2449.4	2448.4	2447.5	2463.6
17.5°	2414.5	2397.5	2403.1	2404.1	2412.6
20°	2359.7	2346.5	2350.2	2349.3	2367.2
22.5°	2294.5	2285.1	2287.9	2286.0	2303.0
25°	2226.5	2217.1	2220.9	2216.2	2225.6
27.5°	2150.1	2143.5	2139.7	2136.8	2143.5
30°	2060.4	2056.6	2056.6	2044.3	2051.9
32.5°	1975.4	1963.1	1963.1	1958.4	1953.7
35°	1875.3	1865.8	1861.1	1847.9	1853.6
37.5°	1775.2	1753.5	1751.6	1741.2	1741.2
40°	1660.0	1647.7	1641.1	1629.8	1627.9
42.5°	1550.5	1538.2	1526.9	1508.0	1504.2
45°	1433.4	1422.0	1406.9	1389.0	1389.9
47.5°	1317.2	1301.2	1287.0	1265.3	1262.5
50°	1197.3	1186.0	1165.2	1146.3	1145.4
52.5°	1084.9	1067.0	1048.1	1025.5	1025.5
55°	974.5	960.3	938.6	914.0	911.2
57.5°	868.7	855.5	830.9	813.0	808.3
60°	771.5	752.6	729.9	714.8	711.0
62.5°	674.2	657.2	640.2	625.1	624.2
65°	587.3	569.4	554.3	543.9	544.8
67.5°	509.0	493.8	476.8	474.0	475.0
70°	435.3	419.2	407.0	413.6	418.3
72.5°	365.4	356.9	348.4	357.9	364.5
75°	307.8	300.3	293.7	306.9	315.4
77.5°	254.9	249.3	248.3	259.7	267.2
80°	204.9	198.3	201.1	214.3	221.0
82.5°	155.8	151.1	152.0	168.1	172.8
85°	104.8	102.9	105.8	119.9	120.9
87.5°	55.7	55.7	57.6	66.1	63.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)