

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: P293389

Luminaire Tested: **24GR-LD5-64-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293389  
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-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: 5652.0 lumens  
Efficiency: N/A  
Efficacy: 121.5 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

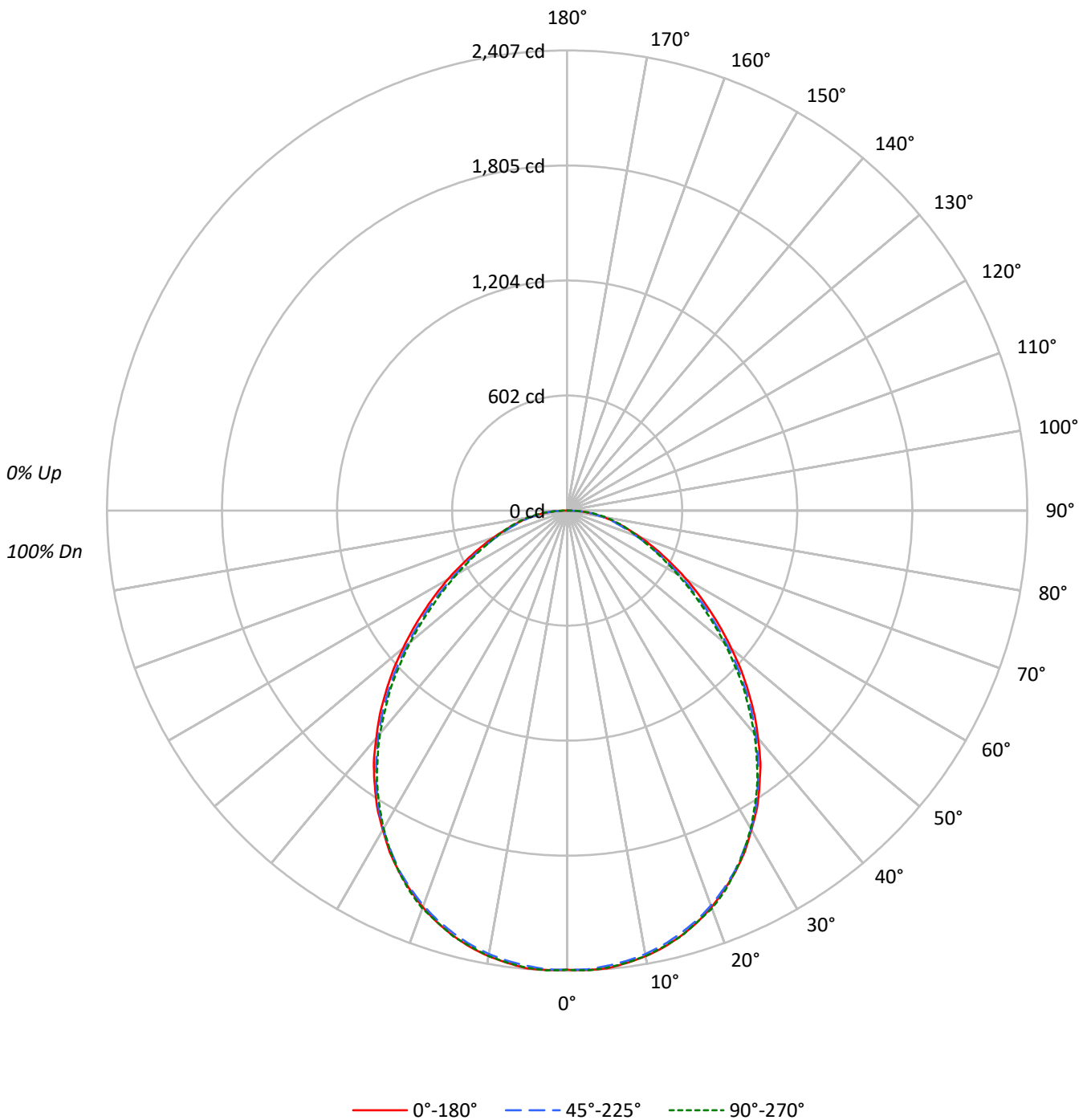
Input Watts (W): 46.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	73	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°	3232	3232	3232
5°	3247	3229	3242
10°	3234	3218	3232
15°	3208	3191	3211
20°	3161	3148	3171
25°	3093	3085	3091
30°	2995	2990	2983
35°	2882	2860	2848
40°	2728	2697	2675
45°	2552	2505	2474
50°	2345	2282	2243
55°	2139	2060	2000
60°	1942	1838	1790
65°	1749	1651	1623
70°	1602	1498	1540
75°	1497	1429	1534
80°	1485	1458	1602
85°	1514	1527	1746



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.3	4.0
10°-20°	646.3	11.4
20°-30°	954.8	16.9
30°-40°	1085.5	19.2
40°-50°	1013.7	17.9
50°-60°	788.4	13.9
60°-70°	523.1	9.3
70°-80°	302.7	5.4
80°-90°	110.1	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°	1828.5	32.4
0°-40°	2914.0	51.6
0°-60°	4716.1	83.4
0°-90°	5652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2402	2402	2402	2402	2402	
5°	2404	2392	2391	2395	2400	228
15°	2303	2292	2291	2290	2305	649
25°	2083	2074	2078	2074	2082	958
35°	1754	1746	1741	1729	1734	1095
45°	1341	1330	1316	1300	1300	1033
55°	912	898	878	855	852	818
65°	550	533	519	509	510	549
75°	288	281	275	287	295	308
85°	98	96	99	112	113	107
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2402.1	2402.1	2402.1	2402.1	2402.1
2.5°	2405.6	2398.6	2402.1	2399.4	2407.4
5°	2403.9	2391.5	2390.6	2395.0	2400.3
7.5°	2387.1	2373.8	2376.5	2376.5	2385.3
10°	2366.8	2353.5	2355.3	2356.2	2365.9
12.5°	2339.4	2326.1	2327.0	2326.1	2335.8
15°	2303.2	2291.7	2290.8	2289.9	2304.9
17.5°	2259.0	2243.1	2248.4	2249.3	2257.2
20°	2207.7	2195.4	2198.9	2198.0	2214.8
22.5°	2146.8	2137.9	2140.6	2138.8	2154.7
25°	2083.2	2074.3	2077.9	2073.5	2082.3
27.5°	2011.6	2005.4	2001.9	1999.2	2005.4
30°	1927.7	1924.2	1924.2	1912.7	1919.7
32.5°	1848.2	1836.7	1836.7	1832.3	1827.9
35°	1754.5	1745.7	1741.3	1728.9	1734.2
37.5°	1660.9	1640.6	1638.8	1629.1	1629.1
40°	1553.1	1541.6	1535.4	1524.8	1523.1
42.5°	1450.6	1439.1	1428.5	1410.9	1407.3
45°	1341.1	1330.5	1316.3	1299.6	1300.4
47.5°	1232.4	1217.4	1204.1	1183.8	1181.2
50°	1120.2	1109.6	1090.2	1072.5	1071.6
52.5°	1015.1	998.3	980.6	959.4	959.4
55°	911.7	898.5	878.1	855.2	852.5
57.5°	812.8	800.4	777.4	760.7	756.2
60°	721.8	704.1	682.9	668.8	665.2
62.5°	630.8	614.9	599.0	584.8	584.0
65°	549.5	532.7	518.6	508.9	509.8
67.5°	476.2	462.0	446.1	443.5	444.4
70°	407.3	392.3	380.8	387.0	391.4
72.5°	341.9	333.9	326.0	334.8	341.0
75°	288.0	280.9	274.8	287.1	295.1
77.5°	238.5	233.2	232.3	242.9	250.0
80°	191.7	185.5	188.2	200.5	206.7
82.5°	145.8	141.4	142.2	157.3	161.7
85°	98.1	96.3	98.9	112.2	113.1
87.5°	52.1	52.1	53.9	61.8	59.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)