

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: P293320

Luminaire Tested: **24GR-LD5-64-F125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293320  
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-L93050-W2A1-U-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5977.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 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

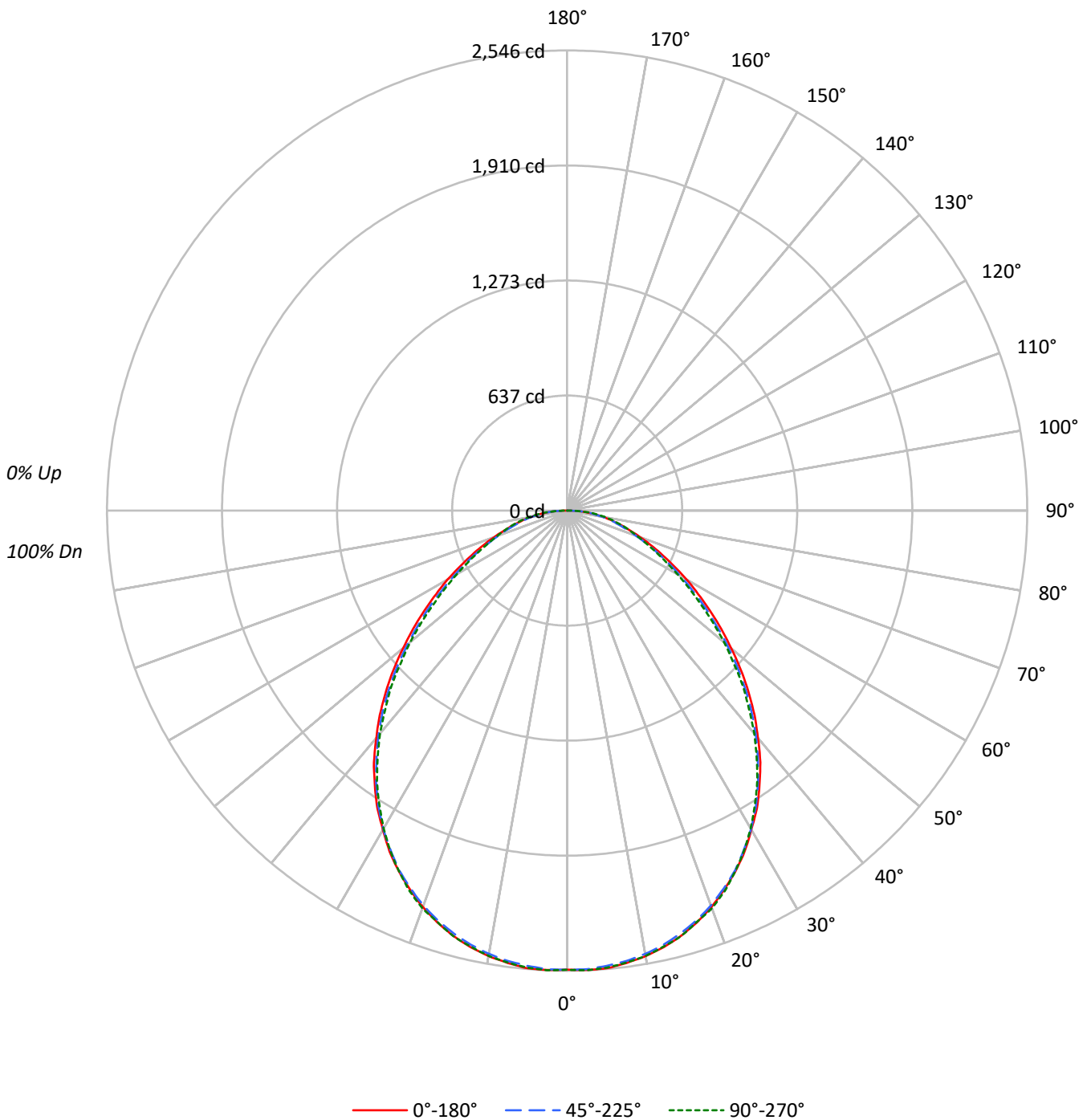
Input Watts (W): 47.871564  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3418	3418	3418
5°	3433	3415	3428
10°	3420	3403	3418
15°	3393	3374	3395
20°	3343	3329	3354
25°	3271	3262	3269
30°	3167	3161	3154
35°	3048	3025	3012
40°	2885	2852	2829
45°	2699	2649	2617
50°	2480	2413	2372
55°	2262	2178	2115
60°	2054	1943	1893
65°	1850	1746	1716
70°	1694	1584	1628
75°	1583	1511	1622
80°	1571	1542	1694
85°	1601	1615	1846



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.4	4.0
10°-20°	683.5	11.4
20°-30°	1009.7	16.9
30°-40°	1148.0	19.2
40°-50°	1072.0	17.9
50°-60°	833.7	13.9
60°-70°	553.2	9.3
70°-80°	320.1	5.4
80°-90°	116.4	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°	1933.6	32.4
0°-40°	3081.6	51.6
0°-60°	4987.3	83.4
0°-90°	5977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5977.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2540	2540	2540	2540	2540	
5°	2542	2529	2528	2533	2538	241
15°	2436	2423	2422	2422	2438	686
25°	2203	2194	2197	2193	2202	1013
35°	1855	1846	1841	1828	1834	1158
45°	1418	1407	1392	1374	1375	1093
55°	964	950	929	904	902	865
65°	581	563	548	538	539	581
75°	305	297	291	304	312	326
85°	104	102	105	119	120	113
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2540.2	2540.2	2540.2	2540.2	2540.2
2.5°	2544.0	2536.5	2540.2	2537.4	2545.8
5°	2542.1	2529.0	2528.1	2532.8	2538.4
7.5°	2524.3	2510.3	2513.1	2513.1	2522.5
10°	2502.9	2488.8	2490.7	2491.6	2501.9
12.5°	2473.9	2459.9	2460.8	2459.9	2470.2
15°	2435.6	2423.4	2422.5	2421.6	2437.5
17.5°	2388.9	2372.1	2377.7	2378.6	2387.0
20°	2334.7	2321.6	2325.3	2324.4	2342.2
22.5°	2270.2	2260.9	2263.7	2261.8	2278.6
25°	2203.0	2193.6	2197.4	2192.7	2202.0
27.5°	2127.3	2120.7	2117.0	2114.2	2120.7
30°	2038.5	2034.8	2034.8	2022.7	2030.1
32.5°	1954.4	1942.3	1942.3	1937.6	1933.0
35°	1855.4	1846.1	1841.4	1828.3	1833.9
37.5°	1756.4	1734.9	1733.0	1722.8	1722.8
40°	1642.4	1630.3	1623.7	1612.5	1610.6
42.5°	1534.0	1521.9	1510.7	1492.0	1488.3
45°	1418.2	1407.0	1392.0	1374.3	1375.2
47.5°	1303.3	1287.4	1273.4	1251.9	1249.1
50°	1184.6	1173.4	1152.9	1134.2	1133.2
52.5°	1073.5	1055.7	1037.0	1014.6	1014.6
55°	964.1	950.1	928.6	904.4	901.6
57.5°	859.5	846.4	822.1	804.4	799.7
60°	763.3	744.6	722.2	707.2	703.5
62.5°	667.1	650.2	633.4	618.5	617.5
65°	581.1	563.4	548.4	538.1	539.1
67.5°	503.6	488.6	471.8	469.0	469.9
70°	430.7	414.8	402.7	409.2	413.9
72.5°	361.6	353.1	344.7	354.1	360.6
75°	304.6	297.1	290.6	303.6	312.0
77.5°	252.2	246.6	245.7	256.9	264.4
80°	202.7	196.2	199.0	212.1	218.6
82.5°	154.2	149.5	150.4	166.3	171.0
85°	103.7	101.8	104.6	118.6	119.6
87.5°	55.1	55.1	57.0	65.4	62.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)