

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: P293393

Luminaire Tested: **24GR-LD5-64-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293393
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6033.0 lumens
Efficiency: N/A
Efficacy: 127.4 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

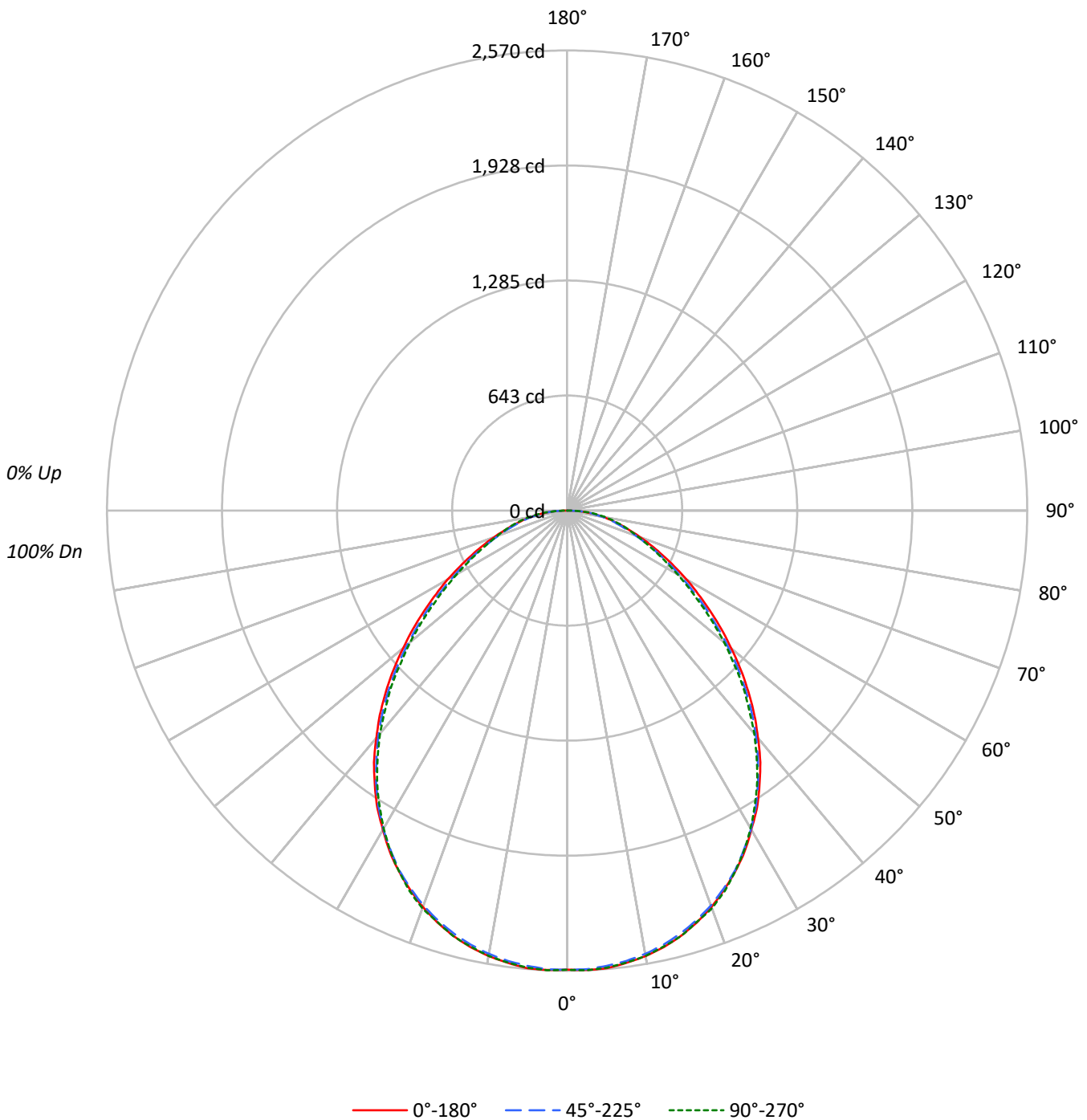
Input Watts (W): 47.337
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	3450	3450	3450
5°	3466	3447	3460
10°	3452	3435	3450
15°	3424	3406	3427
20°	3374	3361	3385
25°	3301	3293	3300
30°	3197	3191	3184
35°	3076	3053	3041
40°	2912	2879	2855
45°	2724	2674	2641
50°	2503	2436	2394
55°	2283	2199	2135
60°	2073	1961	1911
65°	1867	1762	1732
70°	1710	1599	1644
75°	1598	1525	1638
80°	1585	1557	1710
85°	1616	1630	1863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	4.0
10°-20°	689.9	11.4
20°-30°	1019.2	16.9
30°-40°	1158.7	19.2
40°-50°	1082.1	17.9
50°-60°	841.5	13.9
60°-70°	558.4	9.3
70°-80°	323.1	5.4
80°-90°	117.5	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°	1951.7	32.4
0°-40°	3110.5	51.6
0°-60°	5034.0	83.4
0°-90°	6033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2564	2564	2564	2564	2564	
5°	2566	2553	2552	2556	2562	243
15°	2458	2446	2445	2444	2460	693
25°	2224	2214	2218	2213	2223	1022
35°	1873	1863	1859	1846	1851	1169
45°	1432	1420	1405	1387	1388	1103
55°	973	959	937	913	910	873
65°	586	569	554	543	544	586
75°	307	300	293	306	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°	2564.0	2564.0	2564.0	2564.0	2564.0
2.5°	2567.8	2560.3	2564.0	2561.2	2569.7
5°	2565.9	2552.7	2551.8	2556.5	2562.1
7.5°	2548.0	2533.8	2536.7	2536.7	2546.1
10°	2526.3	2512.2	2514.0	2515.0	2525.4
12.5°	2497.1	2482.9	2483.9	2482.9	2493.3
15°	2458.4	2446.1	2445.2	2444.3	2460.3
17.5°	2411.3	2394.3	2399.9	2400.9	2409.4
20°	2356.6	2343.4	2347.1	2346.2	2364.1
22.5°	2291.5	2282.1	2284.9	2283.0	2300.0
25°	2223.6	2214.2	2217.9	2213.2	2222.7
27.5°	2147.2	2140.6	2136.8	2134.0	2140.6
30°	2057.6	2053.9	2053.9	2041.6	2049.1
32.5°	1972.8	1960.5	1960.5	1955.8	1951.1
35°	1872.8	1863.4	1858.7	1845.5	1851.1
37.5°	1772.8	1751.2	1749.3	1738.9	1738.9
40°	1657.8	1645.5	1638.9	1627.6	1625.7
42.5°	1548.4	1536.2	1524.8	1506.0	1502.2
45°	1431.5	1420.2	1405.1	1387.2	1388.1
47.5°	1315.5	1299.5	1285.3	1263.6	1260.8
50°	1195.7	1184.4	1163.7	1144.8	1143.9
52.5°	1083.5	1065.6	1046.7	1024.1	1024.1
55°	973.2	959.0	937.3	912.8	910.0
57.5°	867.6	854.4	829.8	811.9	807.2
60°	770.4	751.6	728.9	713.9	710.1
62.5°	673.3	656.3	639.4	624.3	623.3
65°	586.5	568.6	553.5	543.2	544.1
67.5°	508.3	493.2	476.2	473.4	474.3
70°	434.7	418.7	406.4	413.0	417.8
72.5°	364.9	356.5	348.0	357.4	364.0
75°	307.4	299.9	293.3	306.5	315.0
77.5°	254.6	249.0	248.0	259.3	266.9
80°	204.6	198.0	200.9	214.1	220.7
82.5°	155.6	150.9	151.8	167.9	172.6
85°	104.7	102.8	105.6	119.8	120.7
87.5°	55.6	55.6	57.5	66.0	63.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)