

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: P293824

Luminaire Tested: **24GR-LD5-64-A125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A125-UNV-L93050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5988.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

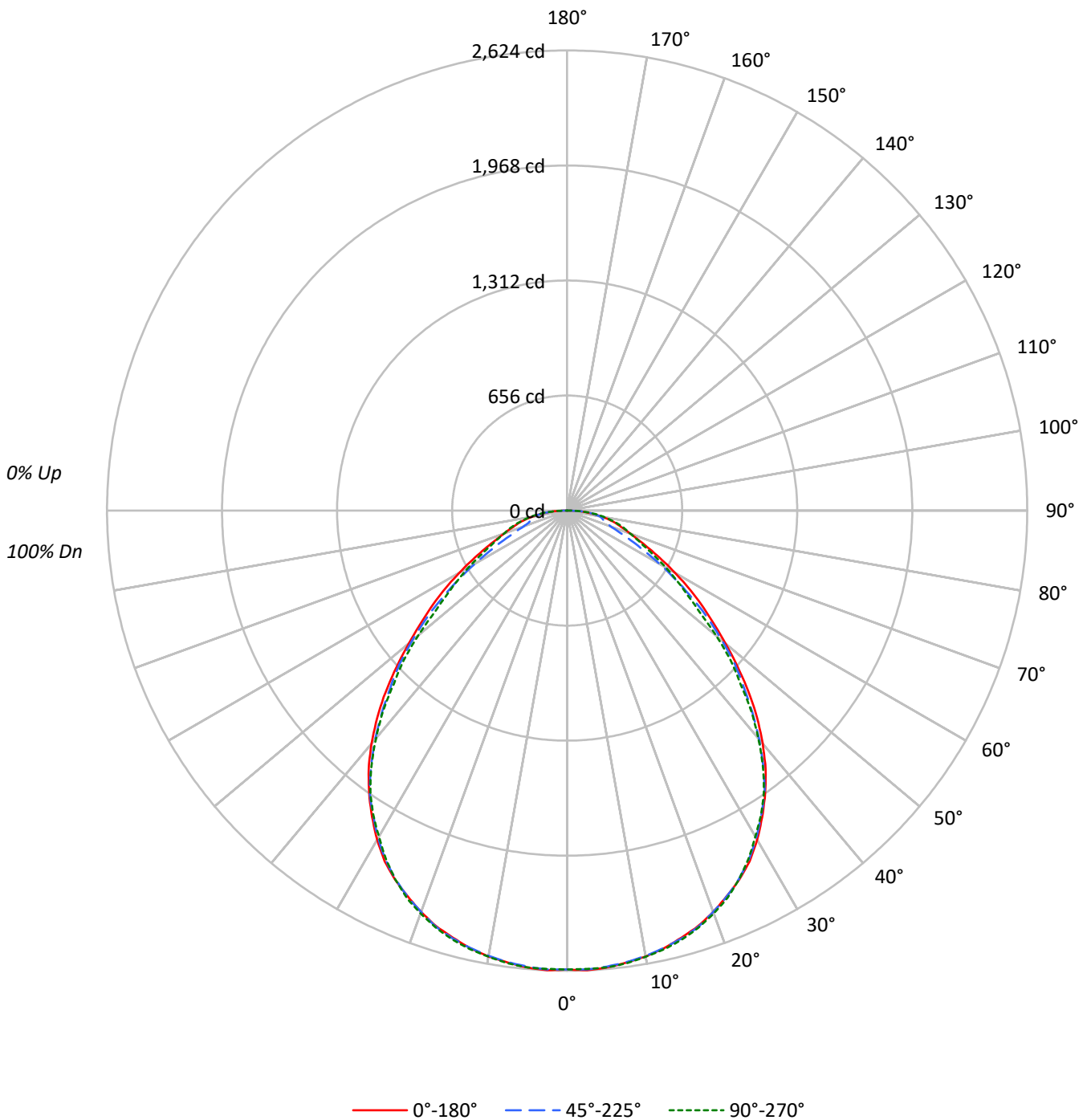
Input Watts (W): 47.871564
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3520	3520	3520
5°	3533	3525	3531
10°	3528	3522	3529
15°	3511	3517	3526
20°	3487	3487	3500
25°	3448	3441	3443
30°	3367	3350	3334
35°	3234	3225	3213
40°	3047	2991	2978
45°	2787	2711	2661
50°	2464	2415	2321
55°	2191	2042	1963
60°	1908	1634	1752
65°	1648	1267	1550
70°	1503	1036	1499
75°	1515	1117	1593
80°	1578	1455	1679
85°	1644	1731	1860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	4.1
10°-20°	711.8	11.9
20°-30°	1065.5	17.8
30°-40°	1217.6	20.3
40°-50°	1100.8	18.4
50°-60°	792.0	13.2
60°-70°	459.1	7.7
70°-80°	272.4	4.5
80°-90°	120.6	2.0
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°	2025.6	33.8
0°-40°	3243.1	54.2
0°-60°	5135.9	85.8
0°-90°	5988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2616	2616	2616	2616	2616	
5°	2616	2612	2610	2606	2615	248
15°	2520	2525	2525	2522	2532	712
25°	2322	2320	2318	2313	2320	1068
35°	1969	1960	1964	1939	1956	1228
45°	1465	1440	1425	1412	1398	1125
55°	934	916	871	848	837	836
65°	518	460	398	445	487	523
75°	292	244	215	265	306	308
85°	106	115	112	129	120	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2616.5	2616.5	2616.5	2616.5	2616.5
2.5°	2624.0	2614.7	2619.4	2616.5	2615.6
5°	2615.6	2611.9	2610.0	2606.3	2614.7
7.5°	2598.8	2596.0	2596.9	2597.9	2603.5
10°	2582.0	2577.3	2578.2	2580.1	2582.9
12.5°	2555.8	2553.0	2554.0	2555.8	2562.4
15°	2520.3	2525.0	2525.0	2522.2	2531.5
17.5°	2484.8	2483.9	2488.6	2480.2	2493.2
20°	2435.3	2436.3	2435.3	2436.3	2444.7
22.5°	2379.3	2383.9	2381.1	2381.1	2390.5
25°	2322.3	2319.5	2317.6	2312.9	2319.5
27.5°	2254.1	2248.5	2243.8	2234.5	2239.2
30°	2167.2	2168.2	2156.0	2147.6	2145.7
32.5°	2070.1	2070.1	2058.9	2052.3	2057.9
35°	1969.2	1959.8	1963.6	1939.3	1956.1
37.5°	1859.9	1844.9	1836.5	1828.1	1833.7
40°	1734.7	1715.1	1703.0	1686.1	1695.5
42.5°	1603.0	1578.7	1563.8	1551.6	1555.4
45°	1464.7	1439.5	1424.6	1411.5	1398.4
47.5°	1319.0	1303.1	1295.7	1278.8	1263.9
50°	1177.0	1171.4	1153.7	1139.7	1108.8
52.5°	1047.2	1042.5	1014.5	991.1	951.9
55°	934.1	916.4	870.6	848.2	837.0
57.5°	819.2	790.3	735.2	732.4	739.8
60°	709.0	673.5	607.2	622.1	651.1
62.5°	609.1	555.8	492.3	527.8	562.4
65°	517.5	459.6	397.9	444.7	486.7
67.5°	441.9	383.9	320.4	383.0	431.6
70°	382.1	323.2	263.4	335.4	381.1
72.5°	332.6	279.3	229.8	298.0	345.6
75°	291.5	243.8	214.9	265.3	306.4
77.5°	250.4	212.1	205.5	236.3	261.6
80°	203.6	185.9	187.8	207.4	216.7
82.5°	152.3	153.2	157.9	173.8	170.0
85°	106.5	114.9	112.1	128.9	120.5
87.5°	58.9	64.5	60.7	73.8	66.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)