

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: P293897

Luminaire Tested: **24GR-LD5-64-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293897
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-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6044.0 lumens
Efficiency: N/A
Efficacy: 127.7 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

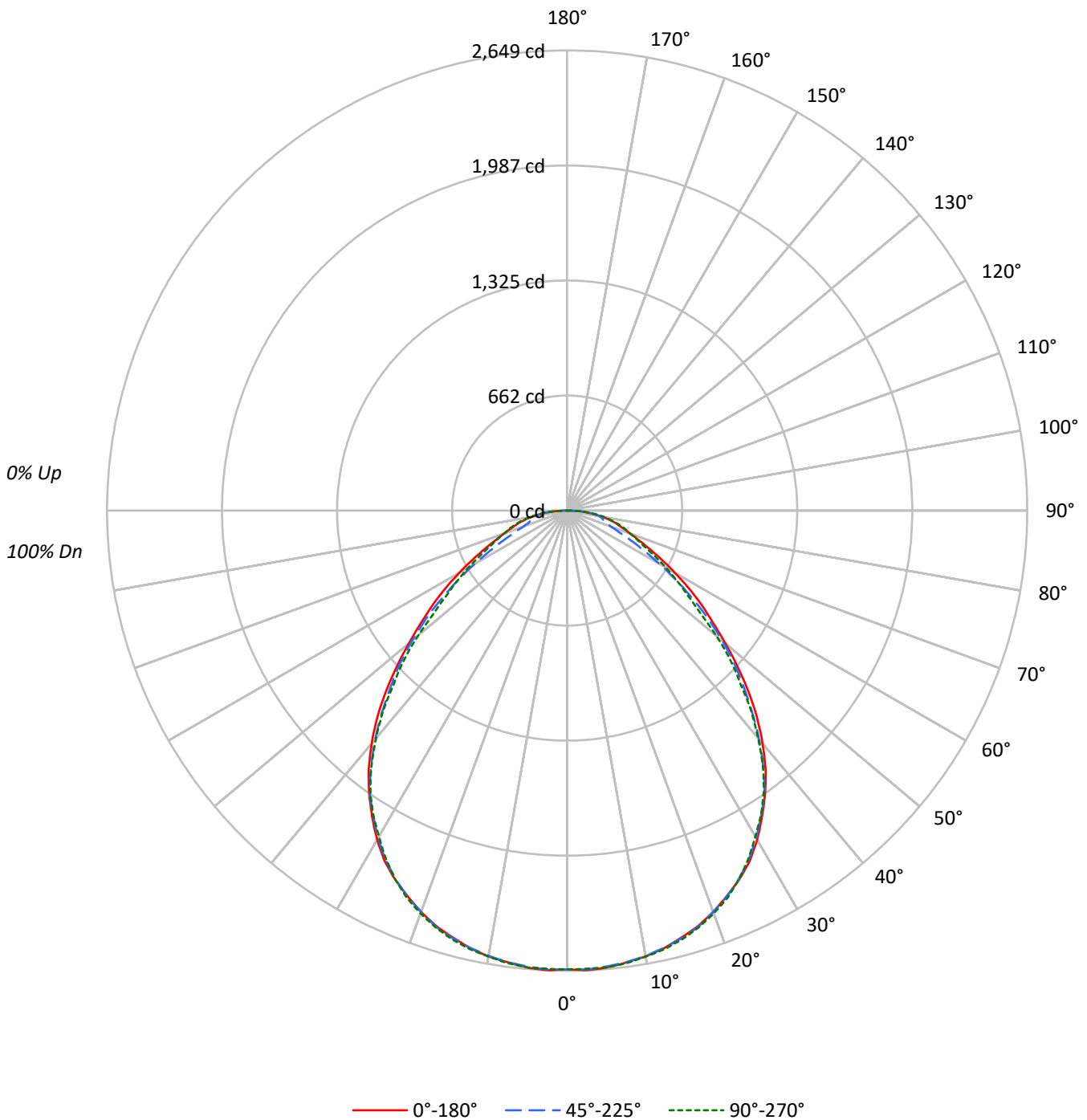
Input Watts (W): 47.337
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3553	3553	3553
5°	3566	3558	3564
10°	3561	3556	3562
15°	3544	3550	3559
20°	3520	3520	3533
25°	3480	3473	3476
30°	3399	3381	3365
35°	3265	3255	3243
40°	3075	3019	3006
45°	2813	2736	2686
50°	2487	2438	2343
55°	2212	2061	1982
60°	1926	1649	1769
65°	1663	1279	1564
70°	1517	1046	1513
75°	1529	1128	1608
80°	1592	1468	1695
85°	1660	1746	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	4.1
10°-20°	718.5	11.9
20°-30°	1075.5	17.8
30°-40°	1228.9	20.3
40°-50°	1111.1	18.4
50°-60°	799.4	13.2
60°-70°	463.4	7.7
70°-80°	274.9	4.5
80°-90°	121.7	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°	2044.5	33.8
0°-40°	3273.5	54.2
0°-60°	5183.9	85.8
0°-90°	6044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2641	2641	2641	2641	2641	
5°	2640	2636	2634	2631	2639	251
15°	2544	2549	2549	2546	2555	718
25°	2344	2341	2339	2335	2341	1078
35°	1988	1978	1982	1957	1974	1239
45°	1478	1453	1438	1425	1412	1136
55°	943	925	879	856	845	843
65°	522	464	402	449	491	527
75°	294	246	217	268	309	311
85°	108	116	113	130	122	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2641.0	2641.0	2641.0	2641.0	2641.0
2.5°	2648.6	2639.1	2643.8	2641.0	2640.1
5°	2640.1	2636.3	2634.4	2630.6	2639.1
7.5°	2623.1	2620.3	2621.2	2622.2	2627.8
10°	2606.1	2601.4	2602.4	2604.2	2607.1
12.5°	2579.7	2576.9	2577.8	2579.7	2586.3
15°	2543.9	2548.6	2548.6	2545.8	2555.2
17.5°	2508.1	2507.1	2511.8	2503.4	2516.6
20°	2458.1	2459.0	2458.1	2459.0	2467.5
22.5°	2401.5	2406.2	2403.4	2403.4	2412.8
25°	2344.0	2341.2	2339.3	2334.6	2341.2
27.5°	2275.2	2269.5	2264.8	2255.4	2260.1
30°	2187.5	2188.4	2176.2	2167.7	2165.8
32.5°	2089.4	2089.4	2078.1	2071.5	2077.2
35°	1987.6	1978.2	1981.9	1957.4	1974.4
37.5°	1877.3	1862.2	1853.7	1845.2	1850.9
40°	1750.9	1731.1	1718.9	1701.9	1711.3
42.5°	1618.0	1593.5	1578.4	1566.1	1569.9
45°	1478.4	1453.0	1437.9	1424.7	1411.5
47.5°	1331.4	1315.3	1307.8	1290.8	1275.7
50°	1188.0	1182.4	1164.5	1150.3	1119.2
52.5°	1057.0	1052.3	1024.0	1000.4	960.8
55°	942.9	925.0	878.8	856.1	844.8
57.5°	826.9	797.7	742.0	739.2	746.8
60°	715.6	679.8	612.9	628.0	657.2
62.5°	614.8	561.0	496.9	532.7	567.6
65°	522.4	463.9	401.7	448.8	491.2
67.5°	446.0	387.5	323.4	386.6	435.6
70°	385.6	326.2	265.9	338.5	384.7
72.5°	335.7	281.9	231.9	300.8	348.9
75°	294.2	246.1	216.9	267.8	309.3
77.5°	252.7	214.0	207.4	238.5	264.0
80°	205.5	187.6	189.5	209.3	218.7
82.5°	153.7	154.6	159.3	175.4	171.6
85°	107.5	116.0	113.1	130.1	121.6
87.5°	59.4	65.1	61.3	74.5	66.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)