

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: P293823

Luminaire Tested: **24GR-LD5-64-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293823
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5885.0 lumens
Efficiency: N/A
Efficacy: 124.9 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

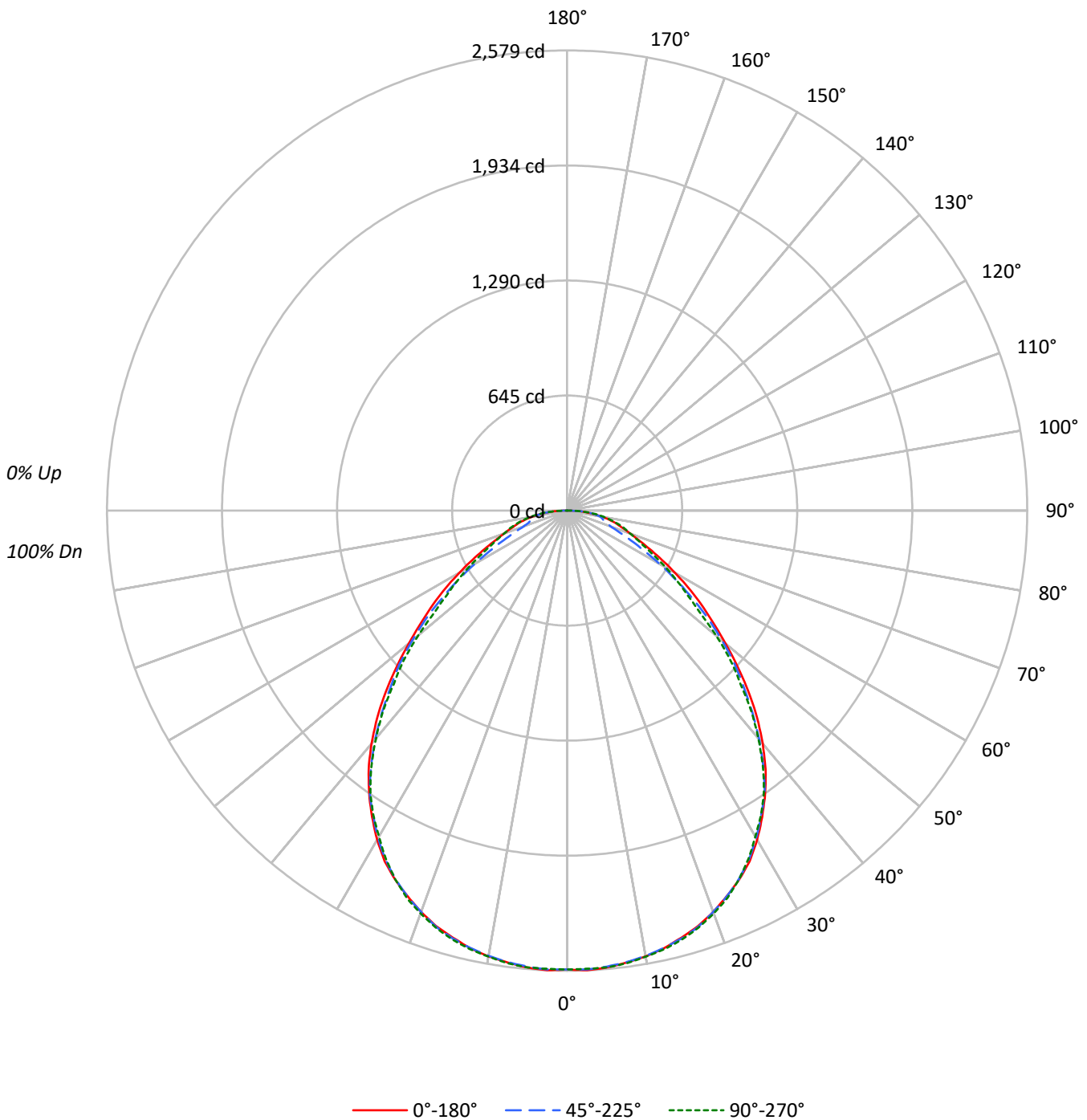
Input Watts (W): 47.136492
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3460	3460	3460
5°	3472	3464	3471
10°	3467	3462	3468
15°	3450	3457	3466
20°	3427	3427	3440
25°	3388	3382	3384
30°	3309	3292	3276
35°	3179	3170	3158
40°	2995	2940	2927
45°	2739	2664	2615
50°	2421	2373	2281
55°	2154	2007	1930
60°	1875	1606	1722
65°	1619	1245	1523
70°	1477	1018	1474
75°	1489	1098	1565
80°	1550	1430	1650
85°	1616	1701	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.9	4.1
10°-20°	699.6	11.9
20°-30°	1047.2	17.8
30°-40°	1196.6	20.3
40°-50°	1081.9	18.4
50°-60°	778.3	13.2
60°-70°	451.2	7.7
70°-80°	267.7	4.5
80°-90°	118.5	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°	1990.7	33.8
0°-40°	3187.4	54.2
0°-60°	5047.6	85.8
0°-90°	5885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2572	2572	2572	2572	2572	
5°	2571	2567	2565	2561	2570	244
15°	2477	2482	2482	2479	2488	699
25°	2282	2280	2278	2273	2280	1049
35°	1935	1926	1930	1906	1922	1207
45°	1440	1415	1400	1387	1374	1106
55°	918	901	856	834	823	821
65°	509	452	391	437	478	514
75°	286	240	211	261	301	303
85°	105	113	110	127	118	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2571.5	2571.5	2571.5	2571.5	2571.5
2.5°	2578.9	2569.7	2574.3	2571.5	2570.6
5°	2570.6	2567.0	2565.1	2561.4	2569.7
7.5°	2554.1	2551.3	2552.3	2553.2	2558.7
10°	2537.6	2533.0	2533.9	2535.7	2538.5
12.5°	2511.9	2509.1	2510.0	2511.9	2518.3
15°	2477.0	2481.6	2481.6	2478.8	2488.0
17.5°	2442.1	2441.2	2445.8	2437.5	2450.4
20°	2393.4	2394.4	2393.4	2394.4	2402.6
22.5°	2338.3	2342.9	2340.2	2340.2	2349.4
25°	2282.3	2279.6	2277.8	2273.2	2279.6
27.5°	2215.3	2209.8	2205.2	2196.0	2200.6
30°	2129.9	2130.9	2118.9	2110.7	2108.8
32.5°	2034.5	2034.5	2023.4	2017.0	2022.5
35°	1935.3	1926.1	1929.8	1905.9	1922.5
37.5°	1827.9	1813.2	1804.9	1796.7	1802.2
40°	1704.9	1685.6	1673.7	1657.1	1666.3
42.5°	1575.4	1551.6	1536.9	1524.9	1528.6
45°	1439.5	1414.8	1400.1	1387.2	1374.4
47.5°	1296.3	1280.7	1273.4	1256.9	1242.2
50°	1156.8	1151.3	1133.8	1120.1	1089.8
52.5°	1029.2	1024.6	997.0	974.1	935.5
55°	918.1	900.6	855.7	833.6	822.6
57.5°	805.2	776.7	722.5	719.8	727.1
60°	696.8	661.9	596.8	611.4	639.9
62.5°	598.6	546.3	483.8	518.7	552.7
65°	508.6	451.7	391.1	437.0	478.3
67.5°	434.3	377.3	314.9	376.4	424.2
70°	375.5	317.7	258.9	329.6	374.6
72.5°	326.8	274.5	225.8	292.9	339.7
75°	286.4	239.6	211.2	260.7	301.1
77.5°	246.0	208.4	202.0	232.3	257.1
80°	200.1	182.7	184.5	203.8	213.0
82.5°	149.6	150.6	155.2	170.8	167.1
85°	104.7	112.9	110.2	126.7	118.4
87.5°	57.8	63.3	59.7	72.5	65.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)