

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: P293260

Luminaire Tested: **24GR-LD5-64-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293260
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-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5872.0 lumens
Efficiency: N/A
Efficacy: 127.8 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

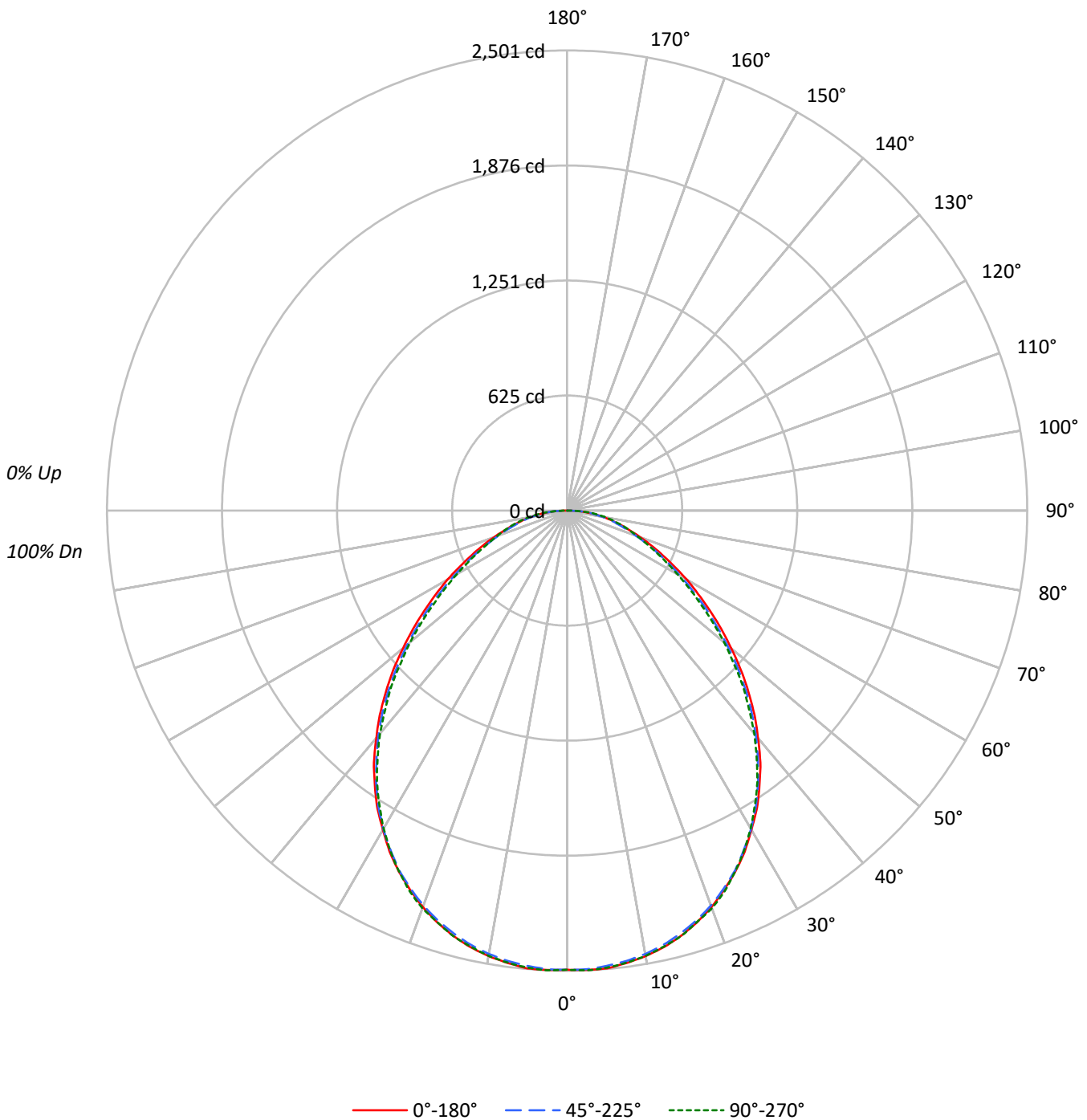
Input Watts (W): 45.942
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3358	3358	3358
5°	3373	3355	3368
10°	3359	3343	3358
15°	3333	3315	3336
20°	3284	3271	3295
25°	3213	3205	3212
30°	3111	3106	3099
35°	2994	2972	2959
40°	2834	2802	2779
45°	2651	2602	2571
50°	2436	2371	2330
55°	2222	2140	2078
60°	2018	1909	1860
65°	1818	1715	1686
70°	1664	1556	1600
75°	1555	1484	1594
80°	1543	1515	1664
85°	1573	1587	1814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.2	4.0
10°-20°	671.5	11.4
20°-30°	992.0	16.9
30°-40°	1127.8	19.2
40°-50°	1053.2	17.9
50°-60°	819.1	13.9
60°-70°	543.5	9.3
70°-80°	314.5	5.4
80°-90°	114.4	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°	1899.7	32.4
0°-40°	3027.4	51.6
0°-60°	4899.7	83.4
0°-90°	5872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5872.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2496	2496	2496	2496	2496	
5°	2497	2485	2484	2488	2494	237
15°	2393	2381	2380	2379	2395	674
25°	2164	2155	2159	2154	2163	995
35°	1823	1814	1809	1796	1802	1138
45°	1393	1382	1368	1350	1351	1074
55°	947	933	912	888	886	849
65°	571	554	539	529	530	571
75°	299	292	285	298	307	320
85°	102	100	103	117	118	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2495.6	2495.6	2495.6	2495.6	2495.6
2.5°	2499.3	2491.9	2495.6	2492.8	2501.1
5°	2497.4	2484.6	2483.7	2488.3	2493.8
7.5°	2480.0	2466.2	2469.0	2469.0	2478.2
10°	2458.9	2445.1	2447.0	2447.9	2458.0
12.5°	2430.4	2416.7	2417.6	2416.7	2426.8
15°	2392.8	2380.9	2380.0	2379.0	2394.6
17.5°	2346.9	2330.4	2335.9	2336.8	2345.1
20°	2293.7	2280.8	2284.5	2283.6	2301.0
22.5°	2230.3	2221.2	2223.9	2222.1	2238.6
25°	2164.3	2155.1	2158.8	2154.2	2163.3
27.5°	2089.9	2083.5	2079.8	2077.1	2083.5
30°	2002.7	1999.0	1999.0	1987.1	1994.5
32.5°	1920.1	1908.2	1908.2	1903.6	1899.0
35°	1822.8	1813.6	1809.1	1796.2	1801.7
37.5°	1725.5	1704.4	1702.6	1692.5	1692.5
40°	1613.6	1601.6	1595.2	1584.2	1582.4
42.5°	1507.1	1495.2	1484.1	1465.8	1462.1
45°	1393.3	1382.3	1367.6	1350.1	1351.1
47.5°	1280.4	1264.8	1251.0	1229.9	1227.1
50°	1163.8	1152.8	1132.6	1114.3	1113.3
52.5°	1054.6	1037.2	1018.8	996.8	996.8
55°	947.2	933.4	912.3	888.5	885.7
57.5°	844.4	831.6	807.7	790.3	785.7
60°	749.9	731.5	709.5	694.8	691.1
62.5°	655.3	638.8	622.3	607.6	606.7
65°	570.9	553.5	538.8	528.7	529.6
67.5°	494.7	480.0	463.5	460.8	461.7
70°	423.1	407.5	395.6	402.0	406.6
72.5°	355.2	346.9	338.7	347.9	354.3
75°	299.2	291.9	285.4	298.3	306.6
77.5°	247.8	242.3	241.4	252.4	259.7
80°	199.2	192.7	195.5	208.3	214.8
82.5°	151.4	146.9	147.8	163.4	168.0
85°	101.9	100.0	102.8	116.6	117.5
87.5°	54.2	54.2	56.0	64.2	61.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)