

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: P293400

Luminaire Tested: **24GR-LD5-72-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293400
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-LD5-72-F125-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6683.0 lumens
Efficiency: N/A
Efficacy: 124.3 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

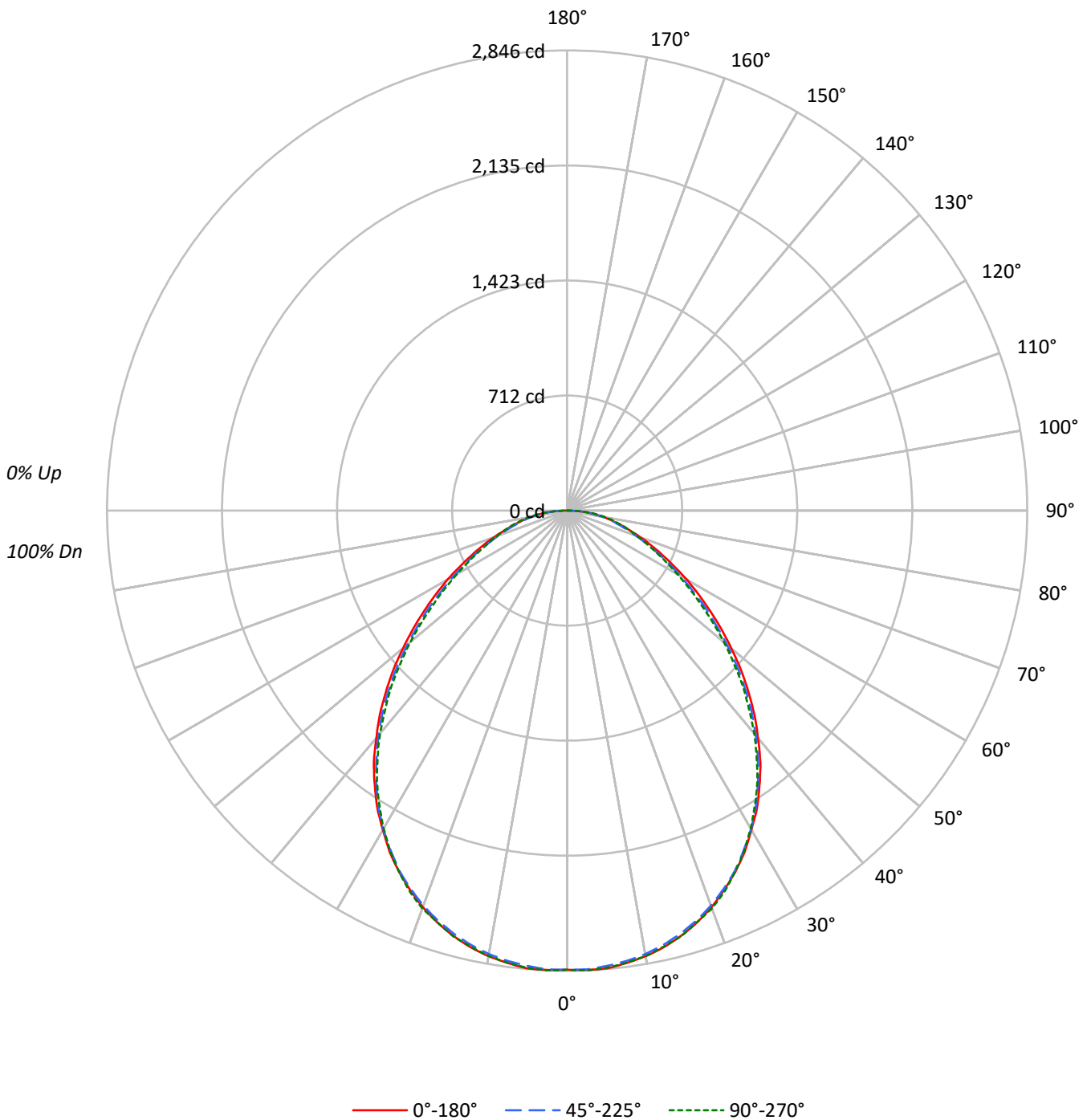
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3822	3822	3822
5°	3839	3818	3833
10°	3823	3805	3822
15°	3793	3773	3796
20°	3738	3723	3750
25°	3657	3647	3655
30°	3541	3535	3527
35°	3408	3382	3368
40°	3225	3189	3163
45°	3017	2962	2926
50°	2773	2698	2652
55°	2529	2436	2365
60°	2296	2173	2117
65°	2068	1952	1919
70°	1895	1771	1821
75°	1770	1689	1814
80°	1757	1724	1894
85°	1791	1806	2064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.8	4.0
10°-20°	764.2	11.4
20°-30°	1129.0	16.9
30°-40°	1283.5	19.2
40°-50°	1198.7	17.9
50°-60°	932.2	13.9
60°-70°	618.5	9.3
70°-80°	357.9	5.4
80°-90°	130.2	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°	2162.0	32.4
0°-40°	3445.6	51.6
0°-60°	5576.4	83.4
0°-90°	6683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2840	2840	2840	2840	2840	
5°	2842	2828	2827	2832	2838	270
15°	2723	2710	2709	2708	2725	767
25°	2463	2453	2457	2452	2462	1133
35°	2075	2064	2059	2044	2051	1295
45°	1586	1573	1556	1537	1538	1222
55°	1078	1062	1038	1011	1008	967
65°	650	630	613	602	603	649
75°	340	332	325	340	349	364
85°	116	114	117	133	134	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2840.3	2840.3	2840.3	2840.3	2840.3
2.5°	2844.5	2836.1	2840.3	2837.1	2846.5
5°	2842.4	2827.7	2826.7	2831.9	2838.2
7.5°	2822.5	2806.8	2810.0	2810.0	2820.4
10°	2798.5	2782.8	2784.9	2786.0	2797.4
12.5°	2766.1	2750.4	2751.5	2750.4	2761.9
15°	2723.3	2709.7	2708.7	2707.6	2725.4
17.5°	2671.0	2652.2	2658.5	2659.6	2669.0
20°	2610.5	2595.8	2600.0	2599.0	2618.8
22.5°	2538.4	2527.9	2531.1	2529.0	2547.8
25°	2463.2	2452.7	2456.9	2451.7	2462.1
27.5°	2378.6	2371.2	2367.1	2363.9	2371.2
30°	2279.3	2275.1	2275.1	2261.6	2269.9
32.5°	2185.3	2171.7	2171.7	2166.5	2161.3
35°	2074.6	2064.1	2058.9	2044.3	2050.6
37.5°	1963.9	1939.8	1937.7	1926.2	1926.2
40°	1836.4	1822.8	1815.5	1803.0	1800.9
42.5°	1715.2	1701.7	1689.1	1668.2	1664.1
45°	1585.7	1573.2	1556.5	1536.6	1537.7
47.5°	1457.2	1439.5	1423.8	1399.8	1396.6
50°	1324.6	1312.0	1289.0	1268.1	1267.1
52.5°	1200.2	1180.4	1159.5	1134.4	1134.4
55°	1078.0	1062.4	1038.3	1011.2	1008.0
57.5°	961.0	946.4	919.3	899.4	894.2
60°	853.4	832.5	807.5	790.8	786.6
62.5°	745.8	727.0	708.2	691.5	690.5
65°	649.7	629.9	613.2	601.7	602.7
67.5°	563.0	546.3	527.5	524.4	525.4
70°	481.6	463.8	450.2	457.5	462.8
72.5°	404.3	394.9	385.5	395.9	403.2
75°	340.5	332.2	324.9	339.5	348.9
77.5°	282.0	275.8	274.7	287.3	295.6
80°	226.7	219.4	222.5	237.1	244.4
82.5°	172.4	167.1	168.2	185.9	191.2
85°	116.0	113.9	117.0	132.7	133.7
87.5°	61.6	61.6	63.7	73.1	70.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)