

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: P293398

Luminaire Tested: **24GR-LD5-72-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293398
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6386.0 lumens
Efficiency: N/A
Efficacy: 120.0 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

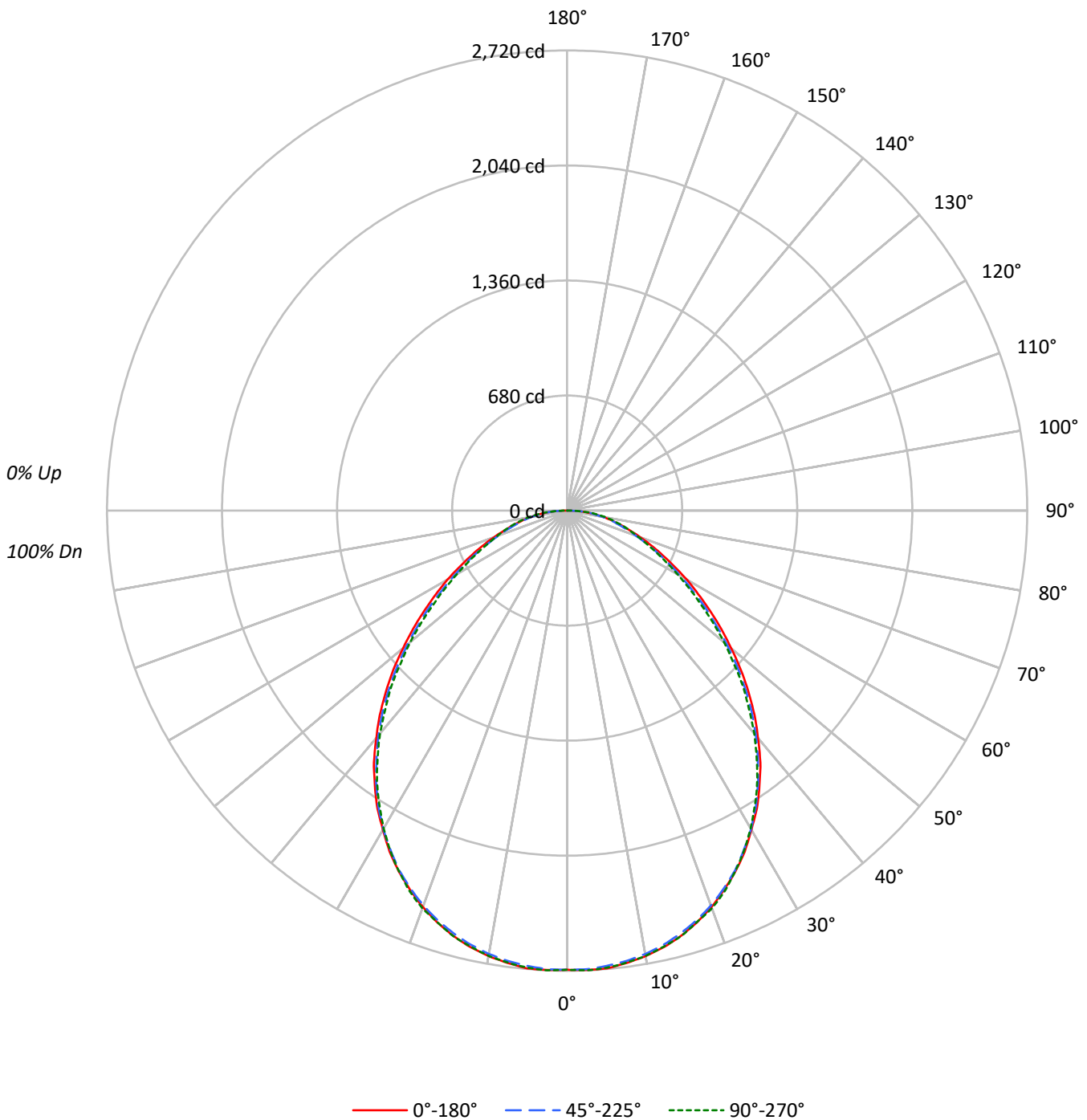
Input Watts (W): 53.196
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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°	3652	3652	3652
5°	3668	3648	3663
10°	3653	3636	3652
15°	3625	3605	3628
20°	3572	3557	3583
25°	3494	3485	3493
30°	3384	3378	3370
35°	3256	3232	3218
40°	3082	3047	3023
45°	2883	2830	2796
50°	2649	2578	2534
55°	2416	2327	2259
60°	2194	2076	2023
65°	1977	1865	1833
70°	1810	1692	1740
75°	1692	1614	1733
80°	1678	1647	1810
85°	1711	1726	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.9	4.0
10°-20°	730.3	11.4
20°-30°	1078.8	16.9
30°-40°	1226.5	19.2
40°-50°	1145.4	17.9
50°-60°	890.7	13.9
60°-70°	591.0	9.3
70°-80°	342.0	5.4
80°-90°	124.4	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°	2065.9	32.4
0°-40°	3292.4	51.6
0°-60°	5328.6	83.4
0°-90°	6386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6386.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2714	2714	2714	2714	2714	
5°	2716	2702	2701	2706	2712	258
15°	2602	2589	2588	2587	2604	733
25°	2354	2344	2348	2343	2353	1082
35°	1982	1972	1967	1953	1959	1238
45°	1515	1503	1487	1468	1469	1168
55°	1030	1015	992	966	963	924
65°	621	602	586	575	576	620
75°	325	317	310	324	333	348
85°	111	109	112	127	128	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2714.0	2714.0	2714.0	2714.0	2714.0
2.5°	2718.0	2710.1	2714.0	2711.1	2720.0
5°	2716.0	2702.1	2701.1	2706.1	2712.1
7.5°	2697.1	2682.1	2685.1	2685.1	2695.1
10°	2674.1	2659.1	2661.1	2662.1	2673.1
12.5°	2643.2	2628.2	2629.2	2628.2	2639.2
15°	2602.3	2589.3	2588.3	2587.3	2604.2
17.5°	2552.3	2534.4	2540.4	2541.4	2550.3
20°	2494.4	2480.5	2484.5	2483.5	2502.4
22.5°	2425.6	2415.6	2418.6	2416.6	2434.6
25°	2353.7	2343.7	2347.7	2342.7	2352.7
27.5°	2272.9	2265.9	2261.9	2258.9	2265.9
30°	2178.0	2174.0	2174.0	2161.1	2169.0
32.5°	2088.2	2075.2	2075.2	2070.2	2065.2
35°	1982.4	1972.4	1967.4	1953.4	1959.4
37.5°	1876.6	1853.6	1851.6	1840.6	1840.6
40°	1754.8	1741.8	1734.8	1722.9	1720.9
42.5°	1639.0	1626.0	1614.1	1594.1	1590.1
45°	1515.2	1503.3	1487.3	1468.3	1469.3
47.5°	1392.5	1375.5	1360.5	1337.6	1334.6
50°	1265.7	1253.7	1231.8	1211.8	1210.8
52.5°	1146.9	1127.9	1108.0	1084.0	1084.0
55°	1030.1	1015.1	992.2	966.2	963.2
57.5°	918.3	904.4	878.4	859.4	854.4
60°	815.5	795.5	771.6	755.6	751.6
62.5°	712.7	694.7	676.8	660.8	659.8
65°	620.9	601.9	585.9	575.0	575.9
67.5°	538.0	522.0	504.1	501.1	502.1
70°	460.2	443.2	430.2	437.2	442.2
72.5°	386.3	377.3	368.3	378.3	385.3
75°	325.4	317.4	310.4	324.4	333.4
77.5°	269.5	263.5	262.5	274.5	282.5
80°	216.6	209.6	212.6	226.6	233.6
82.5°	164.7	159.7	160.7	177.7	182.7
85°	110.8	108.8	111.8	126.8	127.8
87.5°	58.9	58.9	60.9	69.9	66.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)