

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: P293396

Luminaire Tested: **24GR-LD5-72-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293396
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5891.0 lumens
Efficiency: N/A
Efficacy: 113.1 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

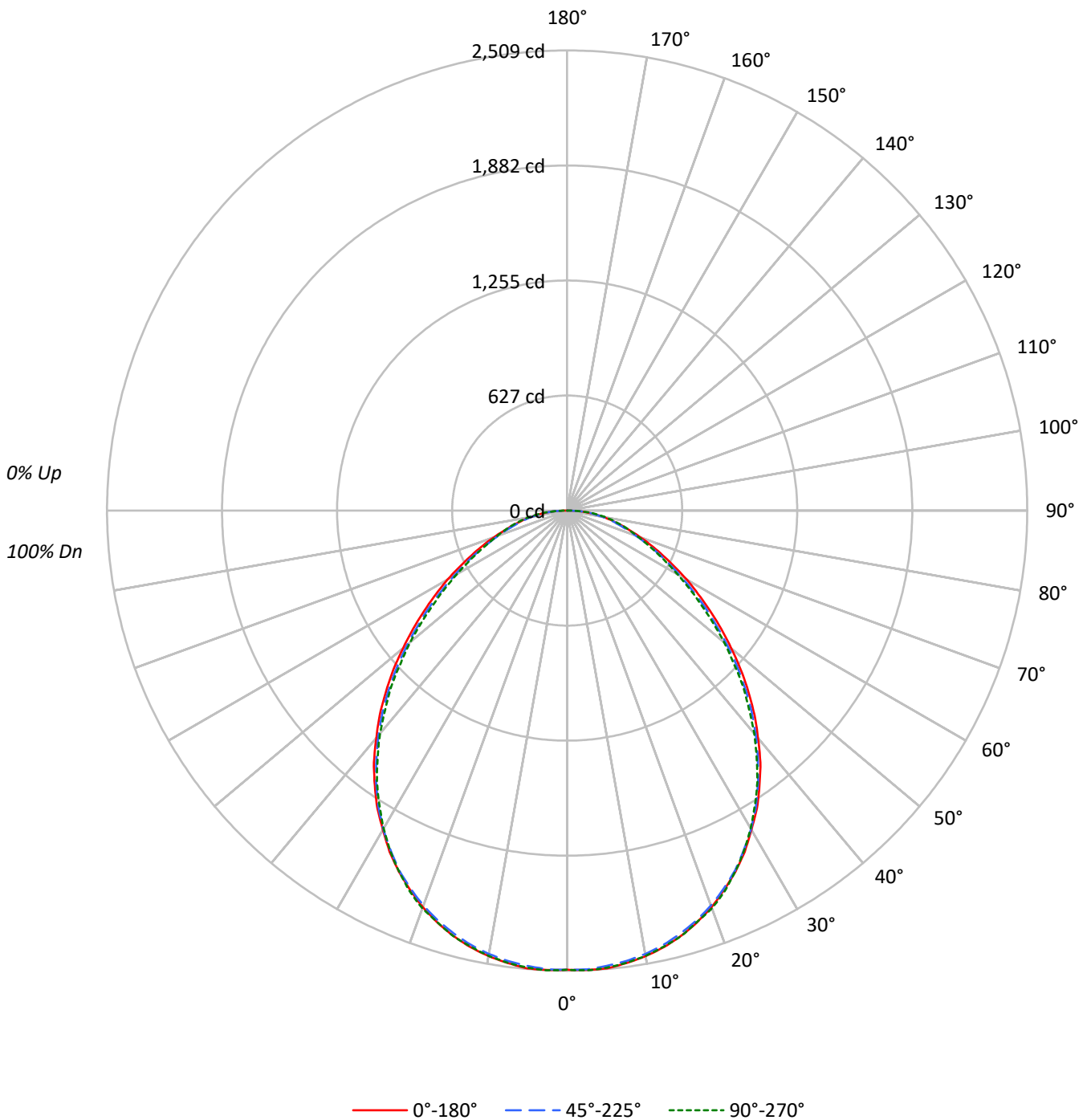
Input Watts (W): 52.08
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3369	3369	3369
5°	3384	3365	3379
10°	3370	3354	3369
15°	3344	3326	3346
20°	3295	3282	3305
25°	3223	3215	3222
30°	3122	3116	3109
35°	3004	2981	2969
40°	2843	2811	2788
45°	2660	2611	2579
50°	2444	2379	2338
55°	2229	2147	2084
60°	2024	1915	1866
65°	1823	1721	1691
70°	1670	1561	1605
75°	1561	1489	1599
80°	1548	1519	1670
85°	1578	1592	1820



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	4.0
10°-20°	673.7	11.4
20°-30°	995.2	16.9
30°-40°	1131.4	19.2
40°-50°	1056.6	17.9
50°-60°	821.7	13.9
60°-70°	545.2	9.3
70°-80°	315.5	5.4
80°-90°	114.7	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°	1905.8	32.4
0°-40°	3037.2	51.6
0°-60°	4915.5	83.4
0°-90°	5891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2504	2504	2504	2504	2504	
5°	2506	2493	2492	2496	2502	238
15°	2400	2389	2388	2387	2402	676
25°	2171	2162	2166	2161	2170	998
35°	1829	1820	1815	1802	1808	1142
45°	1398	1387	1372	1354	1355	1077
55°	950	936	915	891	889	852
65°	573	555	540	530	531	572
75°	300	293	286	299	308	321
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°	2503.7	2503.7	2503.7	2503.7	2503.7
2.5°	2507.4	2500.0	2503.7	2500.9	2509.2
5°	2505.5	2492.6	2491.7	2496.3	2501.8
7.5°	2488.0	2474.2	2477.0	2477.0	2486.2
10°	2466.8	2453.0	2454.9	2455.8	2465.9
12.5°	2438.3	2424.5	2425.4	2424.5	2434.6
15°	2400.5	2388.6	2387.7	2386.7	2402.4
17.5°	2354.5	2337.9	2343.5	2344.4	2352.7
20°	2301.1	2288.2	2291.9	2291.0	2308.5
22.5°	2237.6	2228.4	2231.1	2229.3	2245.8
25°	2171.3	2162.1	2165.7	2161.1	2170.3
27.5°	2096.7	2090.2	2086.5	2083.8	2090.2
30°	2009.2	2005.5	2005.5	1993.5	2000.9
32.5°	1926.3	1914.4	1914.4	1909.8	1905.1
35°	1828.7	1819.5	1814.9	1802.0	1807.5
37.5°	1731.1	1709.9	1708.1	1698.0	1698.0
40°	1618.8	1606.8	1600.4	1589.3	1587.5
42.5°	1512.0	1500.0	1488.9	1470.5	1466.8
45°	1397.8	1386.7	1372.0	1354.5	1355.4
47.5°	1284.5	1268.9	1255.1	1233.9	1231.1
50°	1167.6	1156.5	1136.3	1117.9	1116.9
52.5°	1058.0	1040.5	1022.1	1000.0	1000.0
55°	950.3	936.5	915.3	891.3	888.6
57.5°	847.1	834.3	810.3	792.8	788.2
60°	752.3	733.9	711.8	697.1	693.4
62.5°	657.5	640.9	624.3	609.6	608.7
65°	572.7	555.2	540.5	530.4	531.3
67.5°	496.3	481.6	465.0	462.2	463.2
70°	424.5	408.8	396.9	403.3	407.9
72.5°	356.4	348.1	339.8	349.0	355.4
75°	300.2	292.8	286.4	299.3	307.5
77.5°	248.6	243.1	242.2	253.2	260.6
80°	199.8	193.4	196.1	209.0	215.5
82.5°	151.9	147.3	148.2	163.9	168.5
85°	102.2	100.4	103.1	116.9	117.9
87.5°	54.3	54.3	56.2	64.5	61.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)