

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: P293702

Luminaire Tested: **24GR-LD5-72-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293702
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-LD5-72-A125-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7606.0 lumens
Efficiency: N/A
Efficacy: 141.5 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

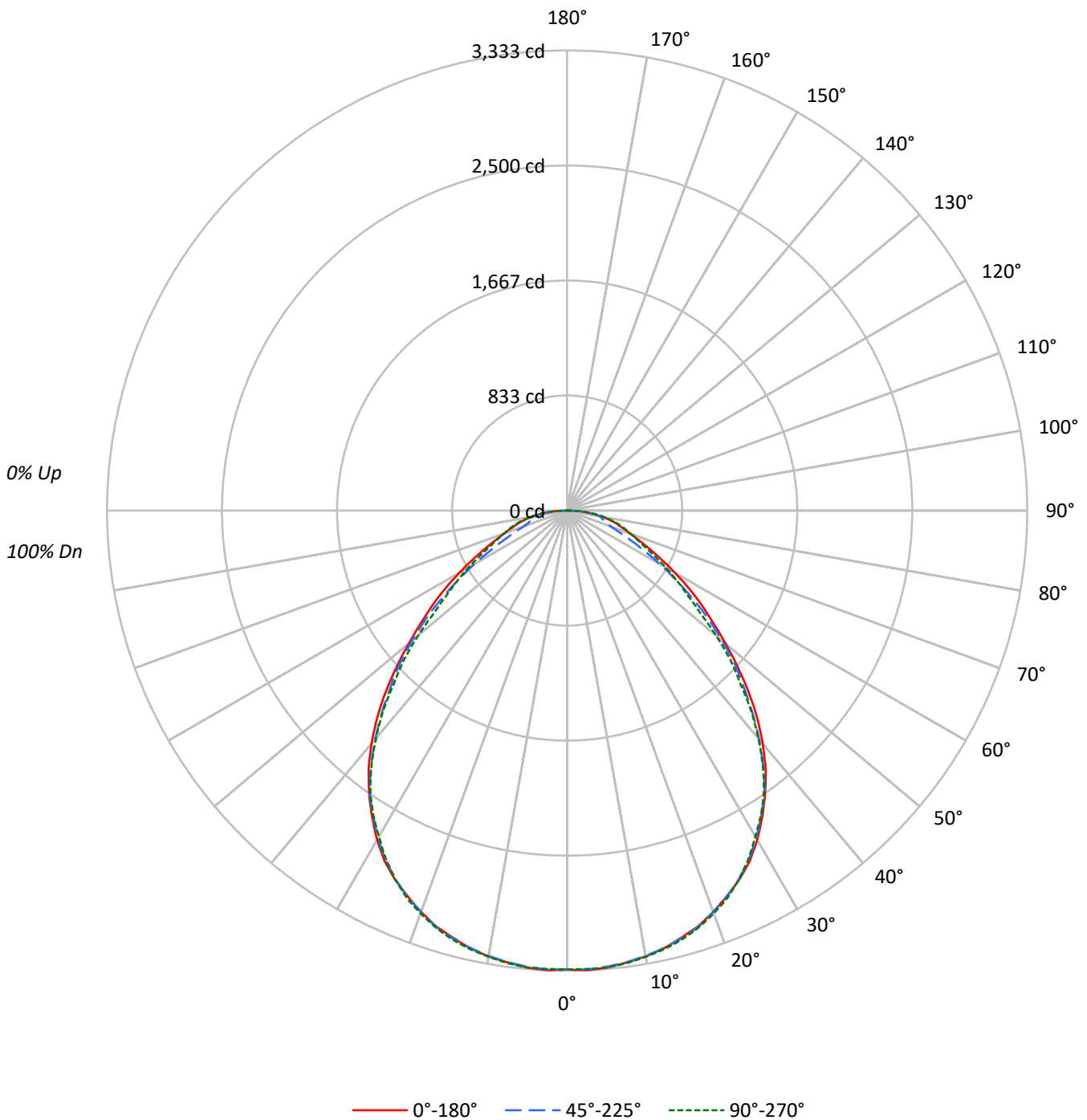
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4472	4472	4472
5°	4487	4478	4486
10°	4481	4474	4482
15°	4459	4468	4479
20°	4429	4429	4446
25°	4379	4370	4374
30°	4277	4255	4234
35°	4108	4097	4081
40°	3870	3799	3783
45°	3540	3443	3380
50°	3130	3067	2948
55°	2784	2594	2494
60°	2423	2076	2225
65°	2093	1609	1968
70°	1909	1316	1904
75°	1925	1419	2023
80°	2005	1848	2133
85°	2089	2198	2364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.3	4.1
10°-20°	904.2	11.9
20°-30°	1353.5	17.8
30°-40°	1546.6	20.3
40°-50°	1398.2	18.4
50°-60°	1005.9	13.2
60°-70°	583.2	7.7
70°-80°	345.9	4.5
80°-90°	153.2	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°	2572.9	33.8
0°-40°	4119.5	54.2
0°-60°	6523.7	85.8
0°-90°	7606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3324	3324	3324	3324	3324	
5°	3322	3318	3315	3310	3321	316
15°	3201	3207	3207	3204	3216	904
25°	2950	2946	2944	2938	2946	1356
35°	2501	2489	2494	2463	2485	1559
45°	1860	1828	1810	1793	1776	1429
55°	1187	1164	1106	1077	1063	1061
65°	657	584	506	565	618	664
75°	370	310	273	337	389	391
85°	135	146	142	164	153	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3323.6	3323.6	3323.6	3323.6	3323.6
2.5°	3333.1	3321.2	3327.1	3323.6	3322.4
5°	3322.4	3317.6	3315.3	3310.5	3321.2
7.5°	3301.0	3297.5	3298.6	3299.8	3306.9
10°	3279.7	3273.7	3274.9	3277.3	3280.8
12.5°	3246.4	3242.9	3244.1	3246.4	3254.7
15°	3201.3	3207.3	3207.3	3203.7	3215.6
17.5°	3156.3	3155.1	3161.0	3150.3	3166.9
20°	3093.4	3094.6	3093.4	3094.6	3105.2
22.5°	3022.2	3028.1	3024.5	3024.5	3036.4
25°	2949.8	2946.2	2943.9	2937.9	2946.2
27.5°	2863.2	2856.1	2850.1	2838.3	2844.2
30°	2752.8	2754.0	2738.6	2727.9	2725.5
32.5°	2629.4	2629.4	2615.2	2606.9	2614.0
35°	2501.3	2489.4	2494.2	2463.3	2484.7
37.5°	2362.4	2343.5	2332.8	2322.1	2329.2
40°	2203.4	2178.5	2163.1	2141.7	2153.6
42.5°	2036.1	2005.3	1986.3	1970.9	1975.6
45°	1860.5	1828.5	1809.5	1792.9	1776.3
47.5°	1675.4	1655.3	1645.8	1624.4	1605.4
50°	1495.1	1487.9	1465.4	1447.6	1408.4
52.5°	1330.1	1324.2	1288.6	1258.9	1209.1
55°	1186.6	1164.0	1105.9	1077.4	1063.2
57.5°	1040.6	1003.8	933.8	930.3	939.8
60°	900.6	855.5	771.3	790.2	827.0
62.5°	773.6	706.0	625.3	670.4	714.3
65°	657.4	583.8	505.5	564.8	618.2
67.5°	561.2	487.7	407.0	486.5	548.2
70°	485.3	410.6	334.6	426.0	484.1
72.5°	422.4	354.8	291.9	378.5	439.0
75°	370.2	309.7	272.9	337.0	389.2
77.5°	318.0	269.3	261.0	300.2	332.2
80°	258.7	236.1	238.5	263.4	275.3
82.5°	193.4	194.6	200.5	220.7	216.0
85°	135.3	145.9	142.4	163.7	153.1
87.5°	74.8	81.9	77.1	93.7	84.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)