

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: P293826

Luminaire Tested: **24GR-LD5-72-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293826
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-L93050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5636.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

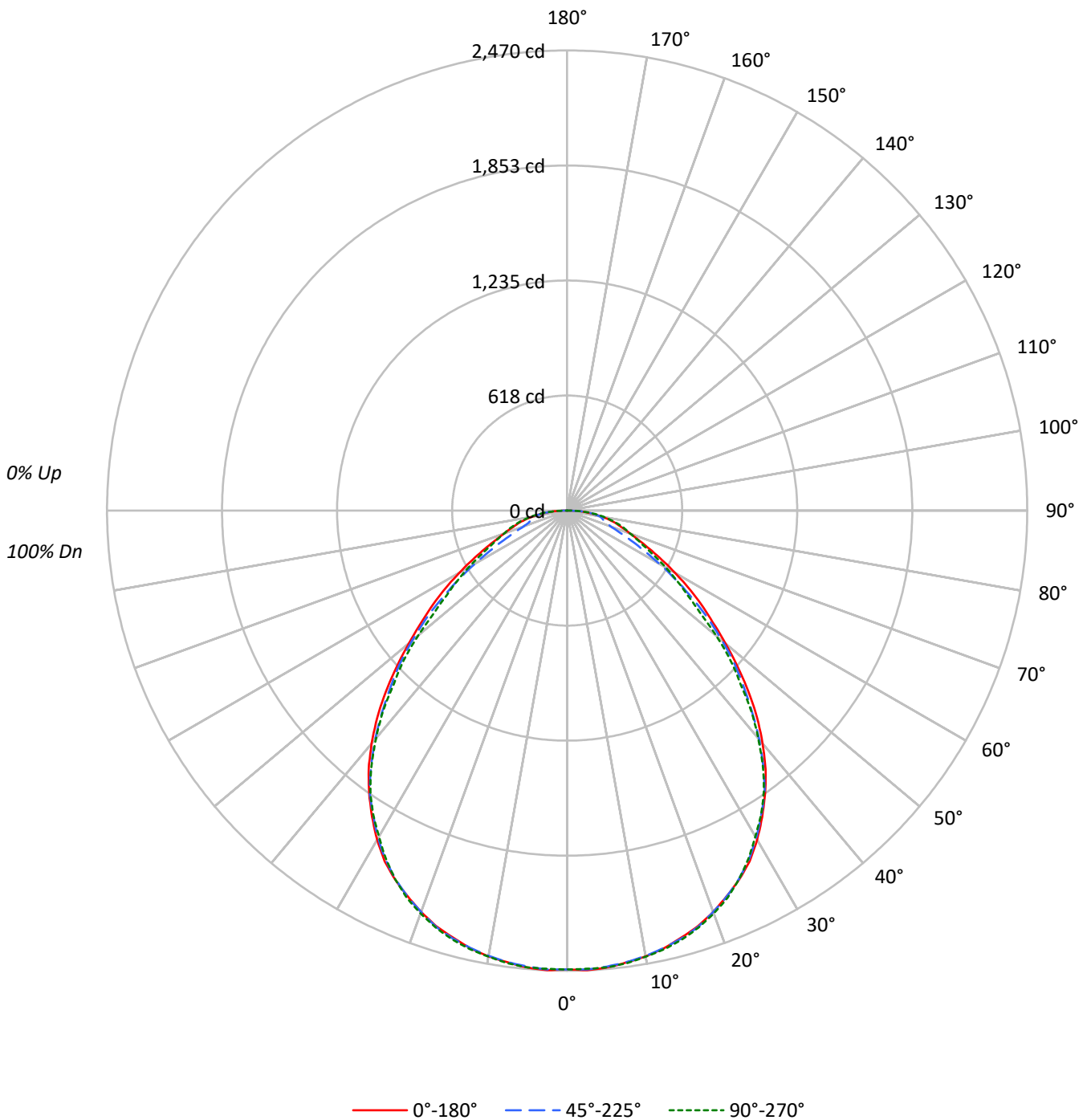
Input Watts (W): 53.753535
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3314	3314	3314
5°	3325	3318	3324
10°	3320	3315	3321
15°	3304	3310	3319
20°	3282	3282	3295
25°	3245	3238	3241
30°	3169	3153	3138
35°	3044	3036	3024
40°	2868	2815	2803
45°	2623	2551	2504
50°	2319	2273	2185
55°	2062	1922	1848
60°	1796	1538	1649
65°	1551	1193	1458
70°	1415	975	1411
75°	1426	1051	1499
80°	1485	1369	1581
85°	1547	1629	1751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	4.1
10°-20°	670.0	11.9
20°-30°	1002.9	17.8
30°-40°	1146.0	20.3
40°-50°	1036.1	18.4
50°-60°	745.4	13.2
60°-70°	432.1	7.7
70°-80°	256.3	4.5
80°-90°	113.5	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°	1906.5	33.8
0°-40°	3052.5	54.2
0°-60°	4834.0	85.8
0°-90°	5636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2463	2463	2463	2463	2463	
5°	2462	2458	2457	2453	2461	234
15°	2372	2377	2377	2374	2383	670
25°	2186	2183	2181	2177	2183	1005
35°	1853	1845	1848	1825	1841	1155
45°	1379	1355	1341	1328	1316	1059
55°	879	862	819	798	788	787
65°	487	433	375	418	458	492
75°	274	230	202	250	288	290
85°	100	108	106	121	113	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2462.7	2462.7	2462.7	2462.7	2462.7
2.5°	2469.8	2461.0	2465.4	2462.7	2461.9
5°	2461.9	2458.3	2456.6	2453.1	2461.0
7.5°	2446.0	2443.4	2444.3	2445.2	2450.4
10°	2430.2	2425.8	2426.7	2428.4	2431.1
12.5°	2405.6	2402.9	2403.8	2405.6	2411.7
15°	2372.2	2376.6	2376.6	2373.9	2382.7
17.5°	2338.8	2337.9	2342.3	2334.4	2346.7
20°	2292.2	2293.0	2292.2	2293.0	2301.0
22.5°	2239.4	2243.8	2241.2	2241.2	2250.0
25°	2185.8	2183.1	2181.4	2177.0	2183.1
27.5°	2121.6	2116.3	2111.9	2103.1	2107.5
30°	2039.8	2040.7	2029.3	2021.4	2019.6
32.5°	1948.4	1948.4	1937.8	1931.7	1937.0
35°	1853.4	1844.6	1848.2	1825.3	1841.1
37.5°	1750.6	1736.5	1728.6	1720.7	1725.9
40°	1632.7	1614.3	1602.8	1587.0	1595.8
42.5°	1508.8	1485.9	1471.8	1460.4	1463.9
45°	1378.6	1354.9	1340.8	1328.5	1316.2
47.5°	1241.5	1226.5	1219.5	1203.7	1189.6
50°	1107.8	1102.6	1085.9	1072.7	1043.7
52.5°	985.6	981.2	954.8	932.9	895.9
55°	879.2	862.5	819.4	798.3	787.8
57.5°	771.1	743.8	692.0	689.3	696.4
60°	667.3	633.9	571.5	585.6	612.8
62.5°	573.3	523.1	463.4	496.8	529.3
65°	487.1	432.6	374.6	418.5	458.1
67.5°	415.9	361.4	301.6	360.5	406.2
70°	359.6	304.2	247.9	315.6	358.7
72.5°	313.0	262.9	216.3	280.5	325.3
75°	274.3	229.5	202.2	249.7	288.4
77.5°	235.6	199.6	193.4	222.4	246.2
80°	191.7	175.0	176.7	195.2	204.0
82.5°	143.3	144.2	148.6	163.5	160.0
85°	100.2	108.1	105.5	121.3	113.4
87.5°	55.4	60.7	57.2	69.5	62.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)