

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: P293822

Luminaire Tested: **24GR-LD5-64-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293822
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-LD5-64-A125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5449.0 lumens
Efficiency: N/A
Efficacy: 116.4 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

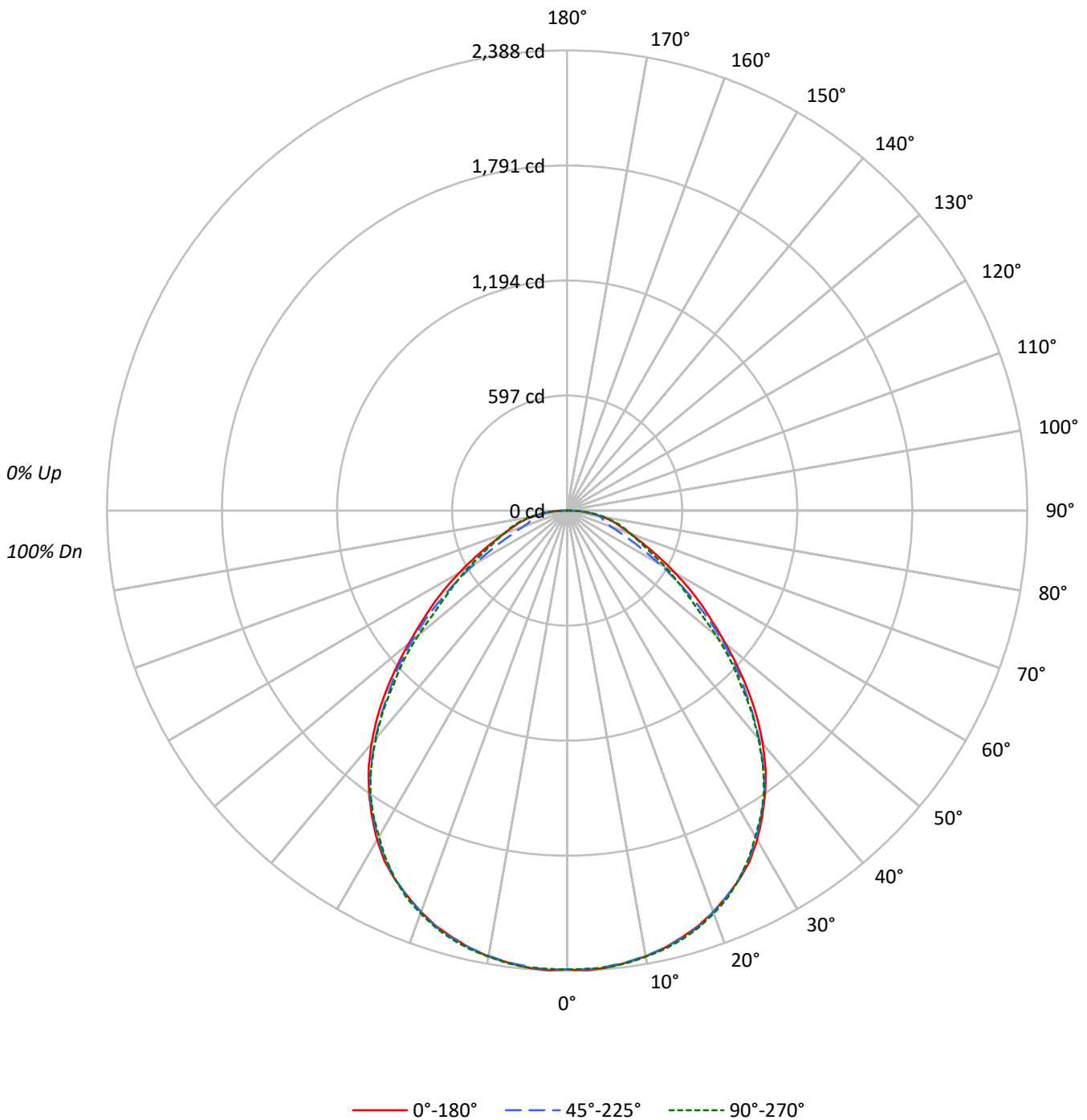
Input Watts (W): 46.814898
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3204	3204	3204
5°	3215	3208	3214
10°	3210	3205	3211
15°	3195	3201	3209
20°	3173	3173	3185
25°	3137	3131	3134
30°	3064	3048	3034
35°	2943	2935	2924
40°	2773	2722	2710
45°	2536	2467	2421
50°	2242	2197	2112
55°	1994	1859	1787
60°	1736	1487	1594
65°	1499	1153	1410
70°	1368	943	1364
75°	1379	1016	1449
80°	1436	1324	1528
85°	1496	1575	1694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	4.1
10°-20°	647.8	11.9
20°-30°	969.6	17.8
30°-40°	1108.0	20.3
40°-50°	1001.7	18.4
50°-60°	720.7	13.2
60°-70°	417.8	7.7
70°-80°	247.8	4.5
80°-90°	109.8	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°	1843.3	33.8
0°-40°	2951.2	54.2
0°-60°	4673.6	85.8
0°-90°	5449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2381	2381	2381	2381	2381	
5°	2380	2377	2375	2372	2379	226
15°	2294	2298	2298	2295	2304	647
25°	2113	2111	2109	2105	2111	972
35°	1792	1783	1787	1765	1780	1117
45°	1333	1310	1296	1284	1272	1024
55°	850	834	792	772	762	760
65°	471	418	362	405	443	475
75°	265	222	196	241	279	280
85°	97	105	102	117	110	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2381.0	2381.0	2381.0	2381.0	2381.0
2.5°	2387.8	2379.3	2383.6	2381.0	2380.2
5°	2380.2	2376.8	2375.1	2371.7	2379.3
7.5°	2364.9	2362.3	2363.2	2364.0	2369.1
10°	2349.6	2345.3	2346.2	2347.9	2350.4
12.5°	2325.8	2323.2	2324.1	2325.8	2331.7
15°	2293.5	2297.7	2297.7	2295.2	2303.7
17.5°	2261.2	2260.3	2264.6	2256.9	2268.8
20°	2216.1	2217.0	2216.1	2217.0	2224.6
22.5°	2165.1	2169.4	2166.8	2166.8	2175.3
25°	2113.3	2110.7	2109.0	2104.8	2110.7
27.5°	2051.2	2046.1	2041.8	2033.3	2037.6
30°	1972.1	1973.0	1961.9	1954.3	1952.6
32.5°	1883.7	1883.7	1873.5	1867.6	1872.7
35°	1791.9	1783.4	1786.8	1764.7	1780.0
37.5°	1692.5	1678.9	1671.2	1663.6	1668.7
40°	1578.6	1560.7	1549.7	1534.4	1542.9
42.5°	1458.7	1436.6	1423.0	1412.0	1415.4
45°	1332.9	1309.9	1296.3	1284.4	1272.5
47.5°	1200.3	1185.8	1179.0	1163.7	1150.1
50°	1071.1	1066.0	1049.8	1037.1	1009.0
52.5°	952.9	948.7	923.2	901.9	866.2
55°	850.1	833.9	792.3	771.9	761.7
57.5°	745.5	719.2	669.0	666.4	673.2
60°	645.2	612.9	552.5	566.1	592.5
62.5°	554.2	505.8	448.0	480.3	511.7
65°	470.9	418.2	362.1	404.6	442.9
67.5°	402.1	349.4	291.6	348.5	392.7
70°	347.7	294.1	239.7	305.2	346.8
72.5°	302.6	254.2	209.1	271.2	314.5
75°	265.2	221.9	195.5	241.4	278.8
77.5°	227.8	193.0	187.0	215.1	238.0
80°	185.3	169.2	170.9	188.7	197.2
82.5°	138.6	139.4	143.7	158.1	154.7
85°	96.9	104.6	102.0	117.3	109.7
87.5°	53.6	58.7	55.3	67.2	60.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)