

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: P293762

Luminaire Tested: **24GR-LD5-56-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293762
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-LD5-56-A125-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5886.0 lumens
Efficiency: N/A
Efficacy: 146.8 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

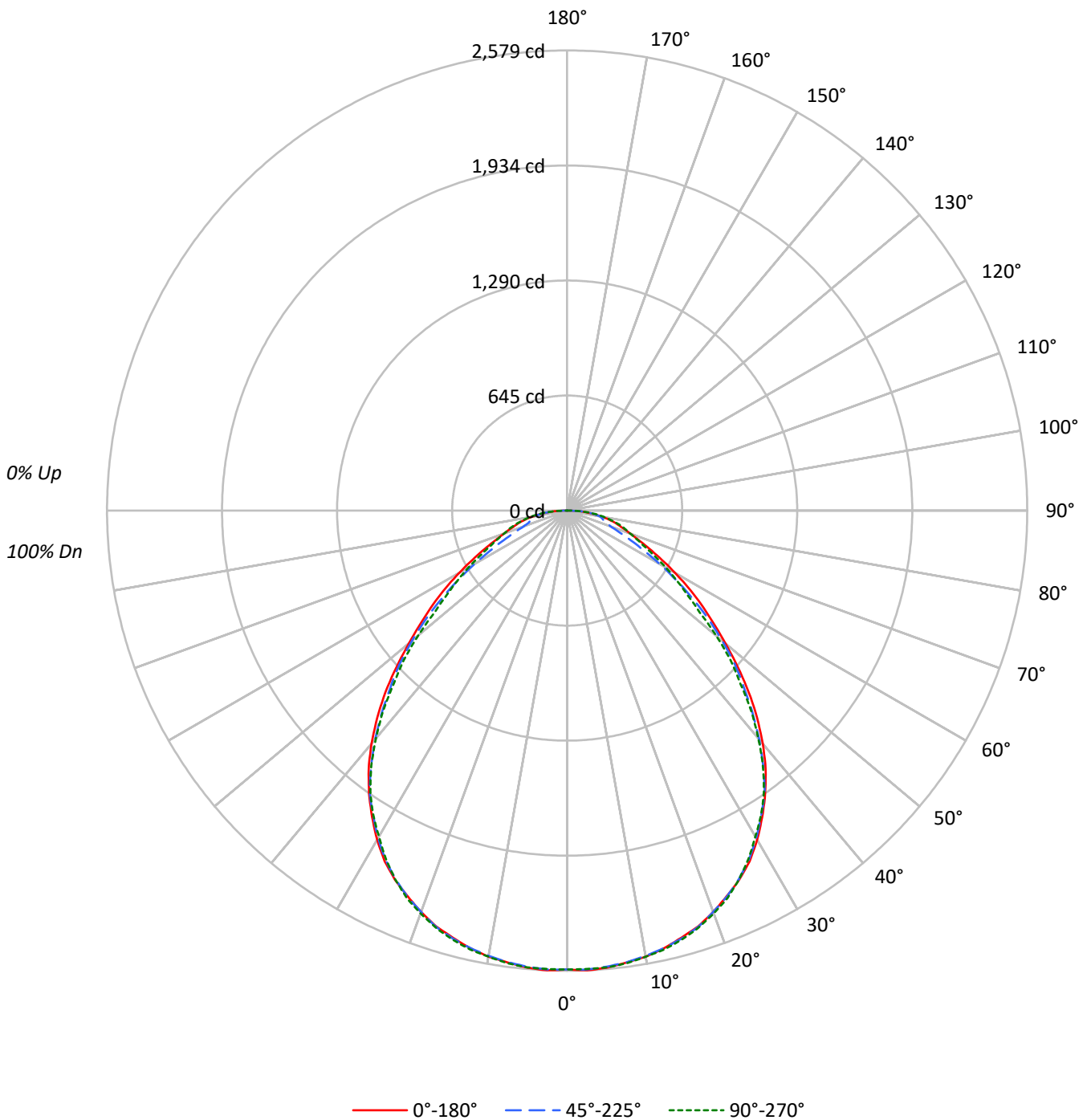
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3461	3461	3461
5°	3473	3465	3471
10°	3468	3462	3469
15°	3451	3457	3466
20°	3428	3428	3441
25°	3389	3382	3385
30°	3310	3293	3277
35°	3179	3170	3158
40°	2995	2940	2927
45°	2740	2665	2616
50°	2422	2374	2281
55°	2154	2008	1930
60°	1875	1606	1722
65°	1620	1245	1523
70°	1478	1018	1474
75°	1489	1098	1566
80°	1551	1430	1650
85°	1616	1701	1829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.0	4.1
10°-20°	699.7	11.9
20°-30°	1047.4	17.8
30°-40°	1196.8	20.3
40°-50°	1082.0	18.4
50°-60°	778.5	13.2
60°-70°	451.3	7.7
70°-80°	267.7	4.5
80°-90°	118.6	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°	1991.1	33.8
0°-40°	3187.9	54.2
0°-60°	5048.4	85.8
0°-90°	5886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2572	2572	2572	2572	2572	
5°	2571	2567	2566	2562	2570	244
15°	2477	2482	2482	2479	2488	699
25°	2283	2280	2278	2274	2280	1049
35°	1936	1926	1930	1906	1923	1207
45°	1440	1415	1400	1388	1375	1106
55°	918	901	856	834	823	821
65°	509	452	391	437	478	514
75°	286	240	211	261	301	303
85°	105	113	110	127	118	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2572.0	2572.0	2572.0	2572.0	2572.0
2.5°	2579.3	2570.1	2574.7	2572.0	2571.1
5°	2571.1	2567.4	2565.5	2561.9	2570.1
7.5°	2554.5	2551.8	2552.7	2553.6	2559.1
10°	2538.0	2533.4	2534.3	2536.2	2538.9
12.5°	2512.3	2509.5	2510.5	2512.3	2518.7
15°	2477.4	2482.0	2482.0	2479.2	2488.4
17.5°	2442.5	2441.6	2446.2	2437.9	2450.8
20°	2393.8	2394.8	2393.8	2394.8	2403.0
22.5°	2338.7	2343.3	2340.6	2340.6	2349.8
25°	2282.7	2280.0	2278.1	2273.6	2280.0
27.5°	2215.7	2210.2	2205.6	2196.4	2201.0
30°	2130.3	2131.2	2119.3	2111.0	2109.2
32.5°	2034.8	2034.8	2023.8	2017.4	2022.9
35°	1935.6	1926.5	1930.1	1906.3	1922.8
37.5°	1828.2	1813.5	1805.3	1797.0	1802.5
40°	1705.2	1685.9	1673.9	1657.4	1666.6
42.5°	1575.7	1551.8	1537.1	1525.2	1528.9
45°	1439.8	1415.0	1400.3	1387.5	1374.6
47.5°	1296.5	1280.9	1273.6	1257.1	1242.4
50°	1157.0	1151.5	1134.0	1120.2	1089.9
52.5°	1029.3	1024.8	997.2	974.2	935.7
55°	918.2	900.8	855.8	833.8	822.7
57.5°	805.3	776.8	722.7	719.9	727.2
60°	696.9	662.0	596.9	611.5	640.0
62.5°	598.7	546.4	483.9	518.8	552.8
65°	508.7	451.8	391.2	437.1	478.4
67.5°	434.3	377.4	315.0	376.5	424.2
70°	375.6	317.7	258.9	329.6	374.6
72.5°	326.9	274.6	225.9	292.9	339.7
75°	286.5	239.7	211.2	260.8	301.2
77.5°	246.1	208.4	202.0	232.3	257.1
80°	200.2	182.7	184.6	203.8	213.0
82.5°	149.7	150.6	155.2	170.8	167.1
85°	104.7	112.9	110.2	126.7	118.5
87.5°	57.8	63.4	59.7	72.5	65.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)