

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: P293764

Luminaire Tested: **24GR-LD5-64-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293764
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-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5883.0 lumens
Efficiency: N/A
Efficacy: 128.1 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

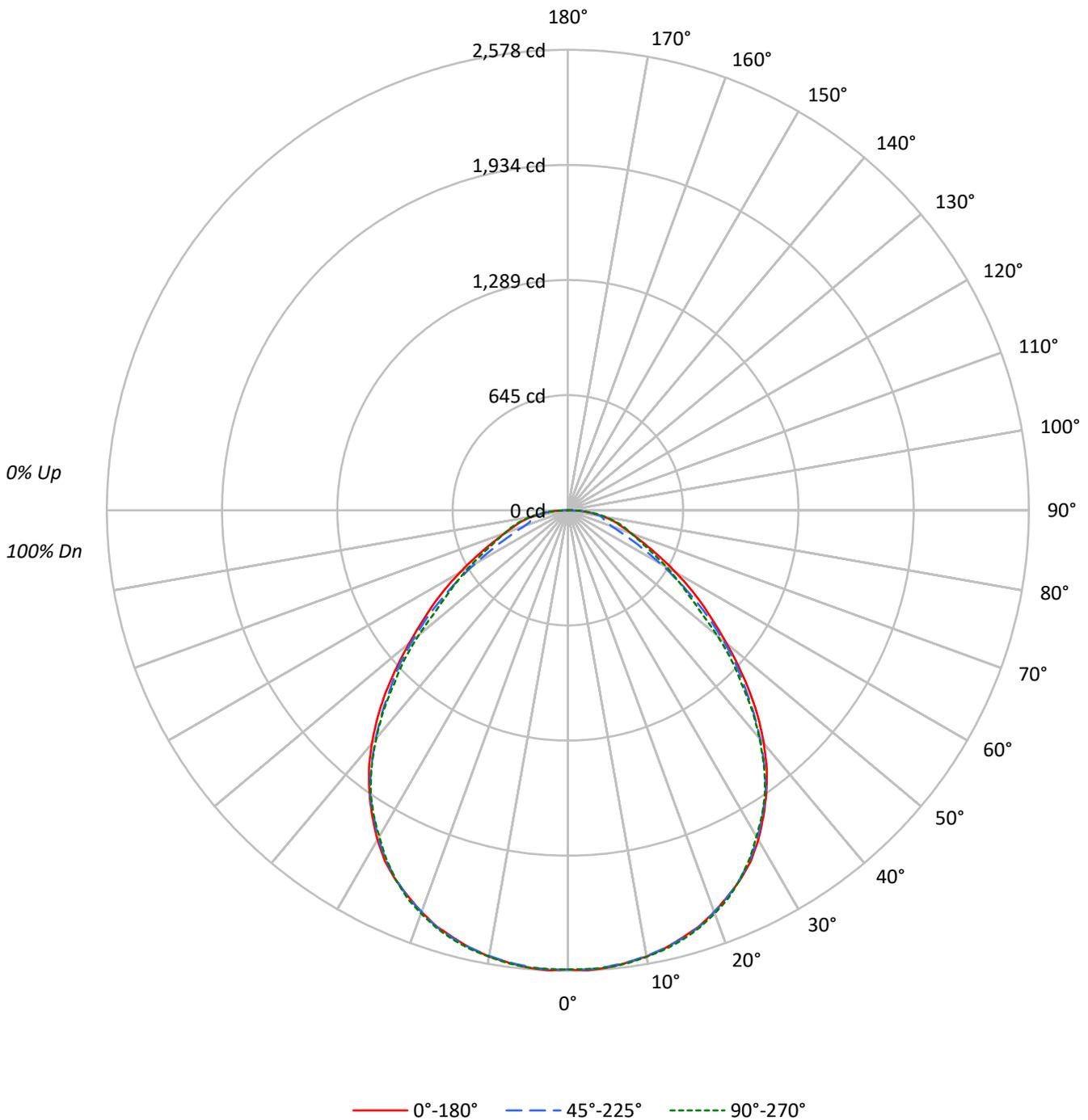
Input Watts (W): 45.942
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3459	3459	3459
5°	3471	3463	3469
10°	3466	3461	3467
15°	3449	3455	3464
20°	3426	3426	3439
25°	3387	3380	3383
30°	3308	3291	3275
35°	3178	3169	3157
40°	2993	2939	2926
45°	2738	2663	2614
50°	2421	2372	2280
55°	2153	2007	1929
60°	1875	1605	1721
65°	1619	1245	1522
70°	1477	1018	1473
75°	1488	1097	1565
80°	1550	1430	1650
85°	1615	1700	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.9	4.1
10°-20°	699.4	11.9
20°-30°	1046.9	17.8
30°-40°	1196.2	20.3
40°-50°	1081.5	18.4
50°-60°	778.1	13.2
60°-70°	451.1	7.7
70°-80°	267.6	4.5
80°-90°	118.5	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°	1990.1	33.8
0°-40°	3186.3	54.2
0°-60°	5045.8	85.8
0°-90°	5883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2571	2571	2571	2571	2571	
5°	2570	2566	2564	2561	2569	244
15°	2476	2481	2481	2478	2487	699
25°	2282	2279	2277	2272	2279	1049
35°	1935	1926	1929	1905	1922	1206
45°	1439	1414	1400	1387	1374	1106
55°	918	900	855	833	822	821
65°	508	452	391	437	478	513
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°	2570.7	2570.7	2570.7	2570.7	2570.7
2.5°	2578.0	2568.8	2573.4	2570.7	2569.7
5°	2569.7	2566.1	2564.2	2560.6	2568.8
7.5°	2553.2	2550.5	2551.4	2552.3	2557.8
10°	2536.7	2532.1	2533.0	2534.9	2537.6
12.5°	2511.0	2508.3	2509.2	2511.0	2517.4
15°	2476.1	2480.7	2480.7	2478.0	2487.1
17.5°	2441.3	2440.3	2444.9	2436.7	2449.5
20°	2392.6	2393.5	2392.6	2393.5	2401.8
22.5°	2337.6	2342.1	2339.4	2339.4	2348.6
25°	2281.6	2278.8	2277.0	2272.4	2278.8
27.5°	2214.6	2209.1	2204.5	2195.3	2199.9
30°	2129.2	2130.1	2118.2	2109.9	2108.1
32.5°	2033.8	2033.8	2022.8	2016.3	2021.8
35°	1934.7	1925.5	1929.1	1905.3	1921.8
37.5°	1827.3	1812.6	1804.3	1796.1	1801.6
40°	1704.3	1685.0	1673.1	1656.6	1665.7
42.5°	1574.9	1551.0	1536.3	1524.4	1528.1
45°	1439.1	1414.3	1399.6	1386.7	1373.9
47.5°	1295.9	1280.3	1272.9	1256.4	1241.7
50°	1156.4	1150.9	1133.4	1119.7	1089.4
52.5°	1028.8	1024.2	996.7	973.8	935.2
55°	917.8	900.3	855.4	833.3	822.3
57.5°	804.9	776.4	722.3	719.5	726.9
60°	696.6	661.7	596.5	611.2	639.7
62.5°	598.4	546.1	483.7	518.5	552.5
65°	508.4	451.5	391.0	436.9	478.2
67.5°	434.1	377.2	314.8	376.3	424.0
70°	375.4	317.5	258.8	329.5	374.4
72.5°	326.7	274.4	225.8	292.8	339.6
75°	286.3	239.5	211.1	260.6	301.0
77.5°	246.0	208.3	201.9	232.2	257.0
80°	200.1	182.6	184.5	203.7	212.9
82.5°	149.6	150.5	155.1	170.7	167.0
85°	104.6	112.9	110.1	126.7	118.4
87.5°	57.8	63.3	59.7	72.5	65.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)