

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: P293264

Luminaire Tested: **24GR-LD5-64-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F125-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6500.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

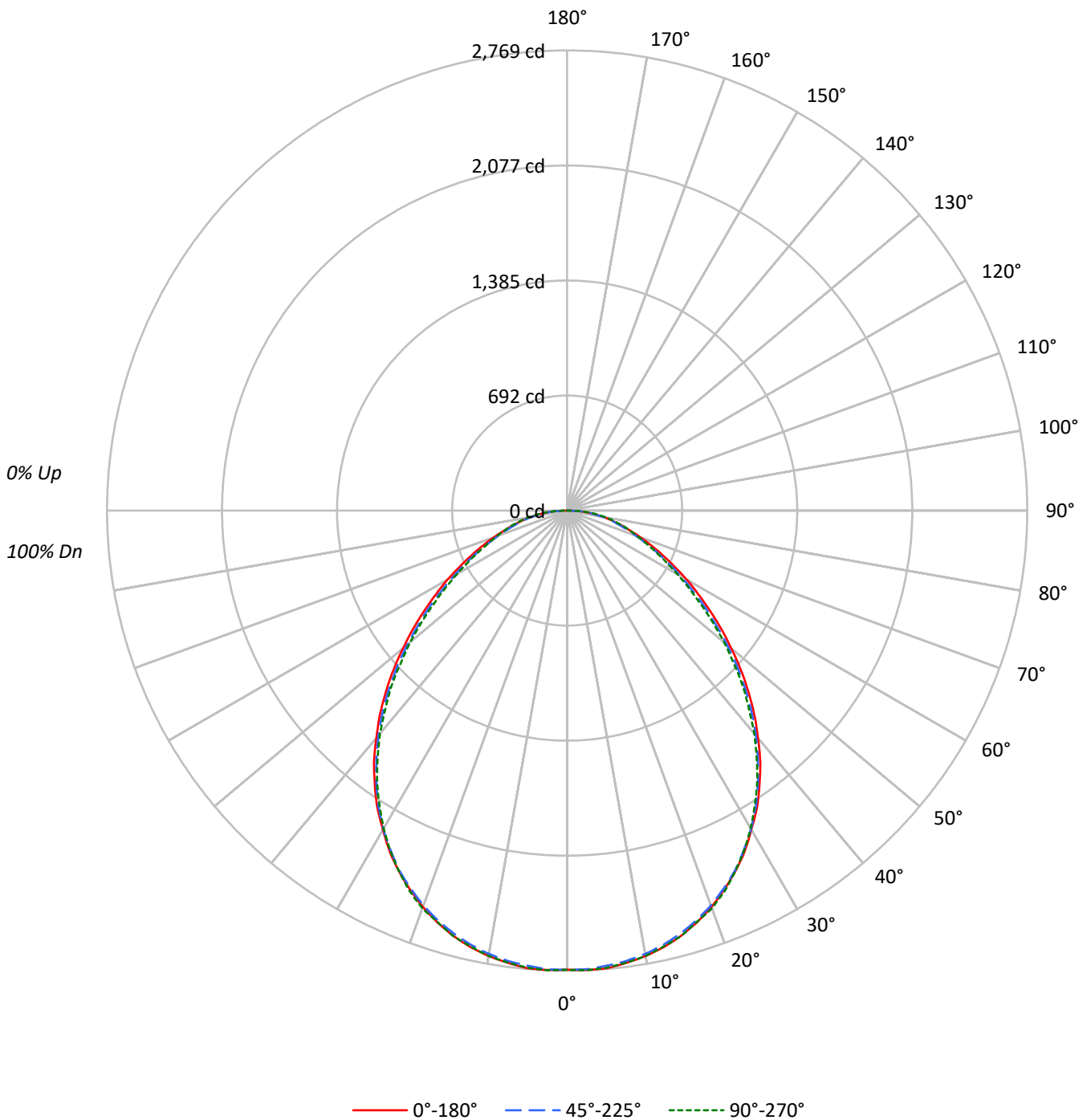
Input Watts (W): 46.779
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3717	3717	3717
5°	3734	3713	3728
10°	3719	3701	3717
15°	3690	3670	3692
20°	3635	3621	3647
25°	3557	3548	3555
30°	3444	3438	3430
35°	3314	3289	3276
40°	3137	3101	3077
45°	2935	2880	2846
50°	2697	2624	2580
55°	2460	2369	2300
60°	2234	2113	2059
65°	2012	1899	1866
70°	1843	1723	1771
75°	1722	1643	1764
80°	1709	1677	1842
85°	1741	1757	2007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	4.0
10°-20°	743.3	11.4
20°-30°	1098.1	16.9
30°-40°	1248.4	19.2
40°-50°	1165.8	17.9
50°-60°	906.6	13.9
60°-70°	601.6	9.3
70°-80°	348.1	5.4
80°-90°	126.6	1.9
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°	2102.8	32.4
0°-40°	3351.2	51.6
0°-60°	5423.7	83.4
0°-90°	6500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2762	2762	2762	2762	2762	
5°	2764	2750	2749	2754	2760	262
15°	2649	2636	2634	2634	2651	746
25°	2396	2386	2390	2384	2395	1101
35°	2018	2008	2002	1988	1994	1260
45°	1542	1530	1514	1494	1496	1188
55°	1048	1033	1010	984	980	940
65°	632	613	596	585	586	632
75°	331	323	316	330	339	354
85°	113	111	114	129	130	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2762.5	2762.5	2762.5	2762.5	2762.5
2.5°	2766.6	2758.4	2762.5	2759.5	2768.6
5°	2764.5	2750.3	2749.3	2754.4	2760.5
7.5°	2745.2	2730.0	2733.0	2733.0	2743.2
10°	2721.9	2706.6	2708.7	2709.7	2720.8
12.5°	2690.4	2675.1	2676.1	2675.1	2686.3
15°	2648.7	2635.5	2634.5	2633.5	2650.7
17.5°	2597.9	2579.6	2585.7	2586.7	2595.9
20°	2539.0	2524.8	2528.8	2527.8	2547.1
22.5°	2468.9	2458.7	2461.8	2459.7	2478.0
25°	2395.7	2385.6	2389.6	2384.5	2394.7
27.5°	2313.4	2306.3	2302.3	2299.2	2306.3
30°	2216.9	2212.8	2212.8	2199.6	2207.8
32.5°	2125.5	2112.3	2112.3	2107.2	2102.1
35°	2017.8	2007.6	2002.5	1988.3	1994.4
37.5°	1910.1	1886.7	1884.7	1873.5	1873.5
40°	1786.1	1772.9	1765.8	1753.6	1751.6
42.5°	1668.3	1655.1	1642.9	1622.5	1618.5
45°	1542.3	1530.1	1513.8	1494.5	1495.5
47.5°	1417.3	1400.0	1384.8	1361.4	1358.4
50°	1288.3	1276.1	1253.7	1233.4	1232.4
52.5°	1167.4	1148.1	1127.8	1103.4	1103.4
55°	1048.5	1033.3	1009.9	983.5	980.4
57.5°	934.7	920.5	894.1	874.8	869.7
60°	830.1	809.8	785.4	769.1	765.0
62.5°	725.4	707.1	688.8	672.6	671.6
65°	632.0	612.6	596.4	585.2	586.2
67.5°	547.6	531.4	513.1	510.0	511.0
70°	468.4	451.1	437.9	445.0	450.1
72.5°	393.2	384.0	374.9	385.1	392.2
75°	331.2	323.1	316.0	330.2	339.3
77.5°	274.3	268.2	267.2	279.4	287.5
80°	220.5	213.4	216.4	230.6	237.7
82.5°	167.6	162.6	163.6	180.8	185.9
85°	112.8	110.7	113.8	129.0	130.0
87.5°	59.9	59.9	62.0	71.1	68.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)