

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: P293282

Luminaire Tested: **24GR-LD5-85-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293282
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-LD5-85-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: 8420.0 lumens
Efficiency: N/A
Efficacy: 132.4 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

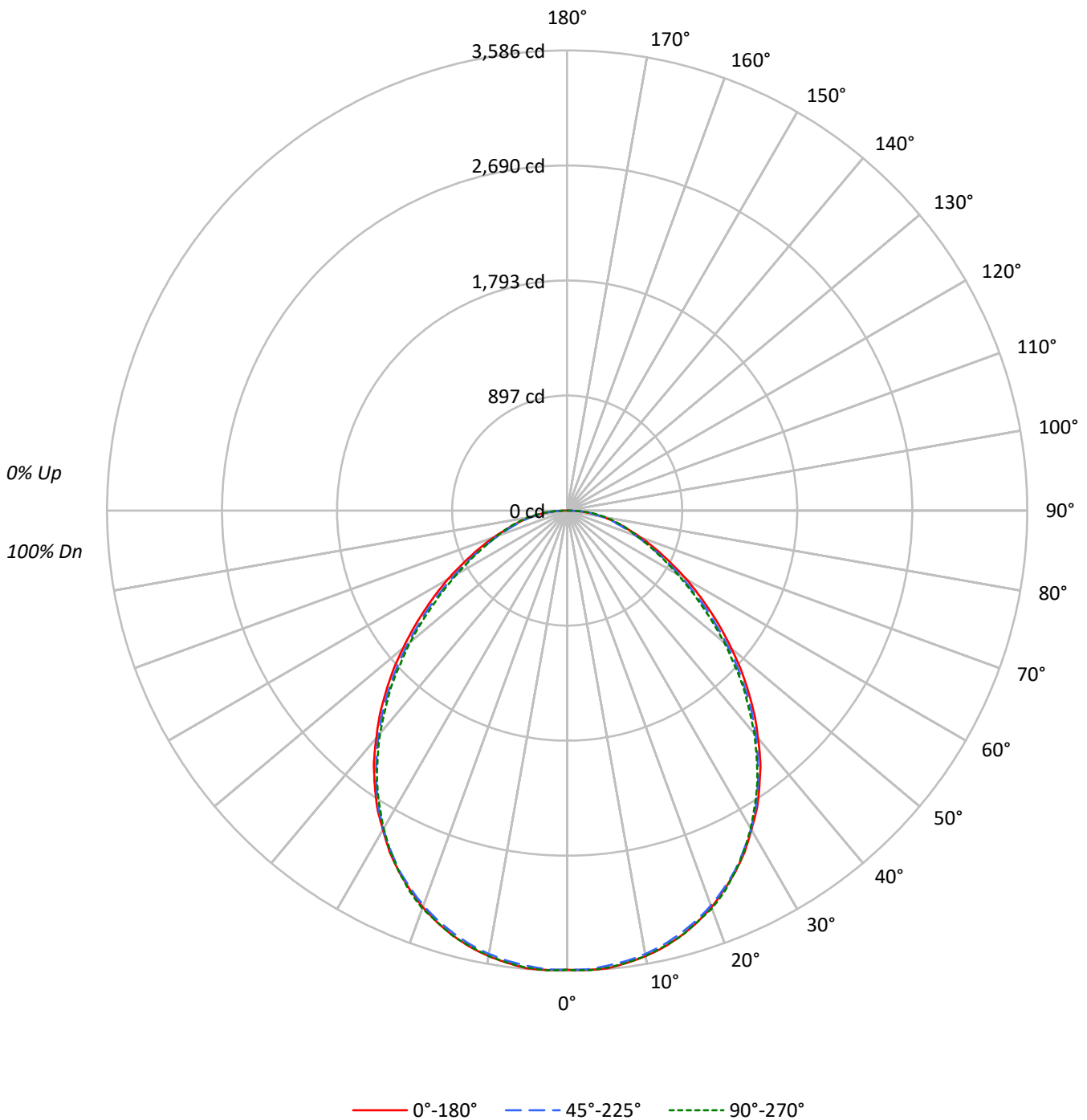
Input Watts (W): 63.612
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4815	4815	4815
5°	4837	4810	4830
10°	4817	4794	4815
15°	4779	4754	4783
20°	4709	4690	4724
25°	4607	4596	4605
30°	4462	4454	4443
35°	4293	4261	4244
40°	4064	4018	3985
45°	3802	3731	3686
50°	3493	3400	3342
55°	3186	3069	2979
60°	2894	2738	2667
65°	2606	2460	2418
70°	2387	2231	2293
75°	2231	2128	2285
80°	2213	2172	2386
85°	2255	2276	2601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	4.0
10°-20°	962.9	11.4
20°-30°	1422.4	16.9
30°-40°	1617.2	19.2
40°-50°	1510.2	17.9
50°-60°	1174.4	13.9
60°-70°	779.3	9.3
70°-80°	451.0	5.4
80°-90°	164.0	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°	2724.0	32.4
0°-40°	4341.1	51.6
0°-60°	7025.8	83.4
0°-90°	8420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3578	3578	3578	3578	3578	
5°	3581	3563	3561	3568	3576	340
15°	3431	3414	3413	3411	3434	967
25°	3103	3090	3096	3089	3102	1427
35°	2614	2601	2594	2576	2584	1632
45°	1998	1982	1961	1936	1937	1539
55°	1358	1338	1308	1274	1270	1218
65°	819	794	773	758	759	818
75°	429	418	409	428	440	459
85°	146	144	147	167	168	159
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3578.5	3578.5	3578.5	3578.5	3578.5
2.5°	3583.8	3573.2	3578.5	3574.6	3586.4
5°	3581.1	3562.7	3561.4	3568.0	3575.9
7.5°	3556.1	3536.4	3540.3	3540.3	3553.5
10°	3525.9	3506.1	3508.7	3510.1	3524.5
12.5°	3485.1	3465.3	3466.6	3465.3	3479.8
15°	3431.1	3414.0	3412.7	3411.4	3433.7
17.5°	3365.3	3341.6	3349.5	3350.8	3362.7
20°	3289.0	3270.5	3275.8	3274.5	3299.5
22.5°	3198.1	3185.0	3188.9	3186.3	3210.0
25°	3103.4	3090.2	3095.5	3088.9	3102.1
27.5°	2996.8	2987.6	2982.3	2978.4	2987.6
30°	2871.7	2866.5	2866.5	2849.4	2859.9
32.5°	2753.3	2736.2	2736.2	2729.6	2723.0
35°	2613.8	2600.6	2594.0	2575.6	2583.5
37.5°	2474.3	2444.0	2441.4	2426.9	2426.9
40°	2313.7	2296.6	2287.4	2271.6	2269.0
42.5°	2161.1	2143.9	2128.1	2101.8	2096.6
45°	1997.9	1982.1	1961.0	1936.0	1937.3
47.5°	1836.0	1813.6	1793.9	1763.6	1759.6
50°	1668.8	1653.0	1624.1	1597.8	1596.4
52.5°	1512.2	1487.2	1460.9	1429.3	1429.3
55°	1358.2	1338.5	1308.2	1274.0	1270.0
57.5°	1210.8	1192.4	1158.2	1133.2	1126.6
60°	1075.3	1048.9	1017.4	996.3	991.0
62.5°	939.7	916.0	892.3	871.3	869.9
65°	818.6	793.6	772.6	758.1	759.4
67.5°	709.4	688.3	664.6	660.7	662.0
70°	606.7	584.4	567.2	576.5	583.0
72.5°	509.3	497.5	485.6	498.8	508.0
75°	429.1	418.5	409.3	427.7	439.6
77.5°	355.3	347.5	346.1	361.9	372.5
80°	285.6	276.4	280.3	298.8	308.0
82.5°	217.2	210.6	211.9	234.3	240.8
85°	146.1	143.5	147.4	167.1	168.5
87.5°	77.7	77.7	80.3	92.1	88.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)