

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: P293286

Luminaire Tested: **24GR-LD5-85-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293286
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8664.0 lumens
Efficiency: N/A
Efficacy: 132.9 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

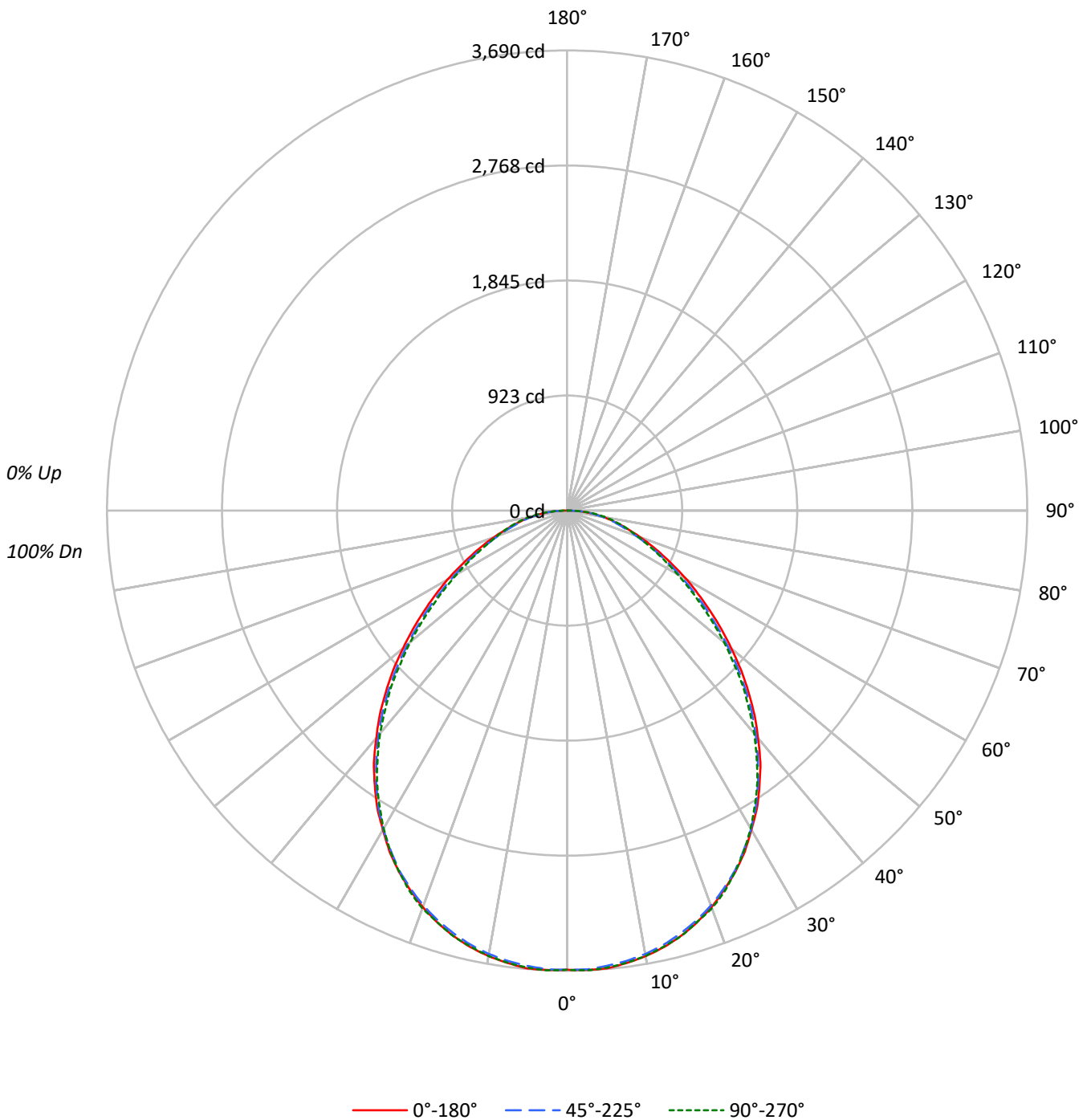
Input Watts (W): 65.193
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	4954	4954	4954
5°	4977	4950	4970
10°	4957	4933	4955
15°	4918	4891	4922
20°	4846	4826	4861
25°	4741	4729	4739
30°	4591	4583	4572
35°	4418	4384	4367
40°	4182	4134	4101
45°	3912	3839	3793
50°	3594	3498	3439
55°	3278	3158	3065
60°	2977	2817	2744
65°	2682	2531	2488
70°	2456	2296	2360
75°	2295	2190	2351
80°	2277	2235	2455
85°	2320	2342	2675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.5	4.0
10°-20°	990.8	11.4
20°-30°	1463.6	16.9
30°-40°	1664.0	19.2
40°-50°	1554.0	17.9
50°-60°	1208.5	13.9
60°-70°	801.9	9.3
70°-80°	464.0	5.4
80°-90°	168.7	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°	2802.9	32.4
0°-40°	4466.9	51.6
0°-60°	7229.3	83.4
0°-90°	8664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3682	3682	3682	3682	3682	
5°	3685	3666	3665	3671	3680	350
15°	3530	3513	3512	3510	3533	995
25°	3193	3180	3185	3178	3192	1468
35°	2690	2676	2669	2650	2658	1679
45°	2056	2040	2018	1992	1994	1584
55°	1398	1377	1346	1311	1307	1253
65°	842	817	795	780	781	842
75°	442	431	421	440	452	472
85°	150	148	152	172	173	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3682.2	3682.2	3682.2	3682.2	3682.2
2.5°	3687.6	3676.8	3682.2	3678.1	3690.3
5°	3684.9	3665.9	3664.6	3671.4	3679.5
7.5°	3659.2	3638.9	3642.9	3642.9	3656.5
10°	3628.0	3607.7	3610.4	3611.8	3626.7
12.5°	3586.0	3565.7	3567.1	3565.7	3580.6
15°	3530.5	3512.9	3511.6	3510.2	3533.2
17.5°	3462.8	3438.4	3446.6	3447.9	3460.1
20°	3384.3	3365.3	3370.7	3369.4	3395.1
22.5°	3290.8	3277.3	3281.3	3278.6	3303.0
25°	3193.3	3179.8	3185.2	3178.4	3192.0
27.5°	3083.6	3074.1	3068.7	3064.7	3074.1
30°	2955.0	2949.6	2949.6	2931.9	2942.8
32.5°	2833.1	2815.5	2815.5	2808.7	2801.9
35°	2689.5	2676.0	2669.2	2650.3	2658.4
37.5°	2546.0	2514.8	2512.1	2497.2	2497.2
40°	2380.8	2363.2	2353.7	2337.4	2334.7
42.5°	2223.7	2206.1	2189.8	2162.7	2157.3
45°	2055.7	2039.5	2017.8	1992.1	1993.5
47.5°	1889.2	1866.2	1845.8	1814.7	1810.6
50°	1717.2	1700.9	1671.1	1644.1	1642.7
52.5°	1556.0	1530.3	1503.2	1470.7	1470.7
55°	1397.6	1377.3	1346.1	1310.9	1306.8
57.5°	1245.9	1226.9	1191.7	1166.0	1159.2
60°	1106.4	1079.3	1046.8	1025.2	1019.7
62.5°	966.9	942.6	918.2	896.5	895.2
65°	842.3	816.6	794.9	780.0	781.4
67.5°	729.9	708.3	683.9	679.8	681.2
70°	624.3	601.3	583.7	593.2	599.9
72.5°	524.1	511.9	499.7	513.3	522.7
75°	441.5	430.7	421.2	440.1	452.3
77.5°	365.6	357.5	356.2	372.4	383.3
80°	293.9	284.4	288.5	307.4	316.9
82.5°	223.5	216.7	218.0	241.1	247.8
85°	150.3	147.6	151.7	172.0	173.3
87.5°	79.9	79.9	82.6	94.8	90.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)