

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: P293204

Luminaire Tested: **24GR-LD5-85-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293204
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-L83050-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: 8786.0 lumens
Efficiency: N/A
Efficacy: 134.2 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

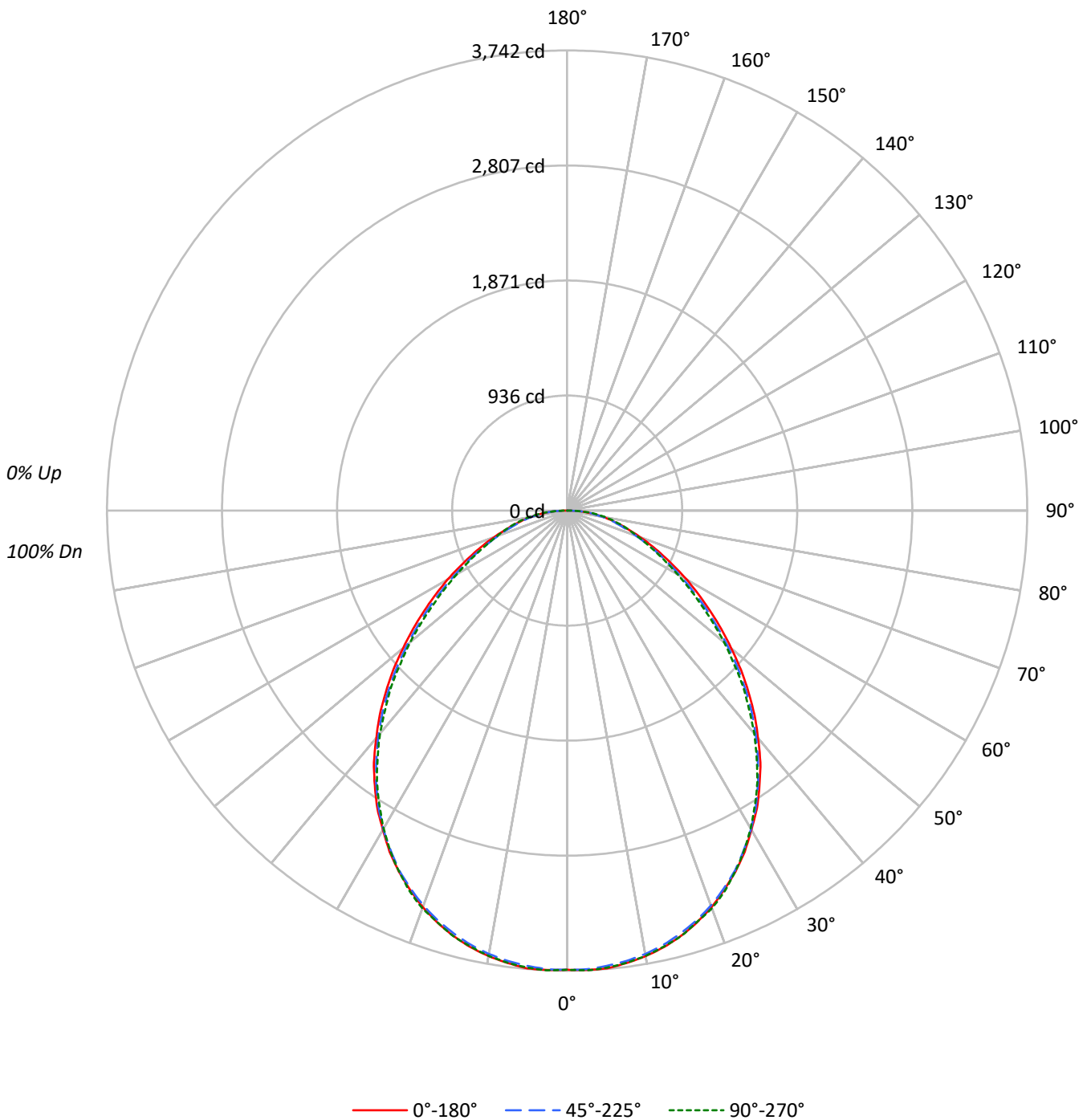
Input Watts (W): 65.472
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5024	5024	5024
5°	5047	5019	5040
10°	5027	5002	5025
15°	4987	4960	4991
20°	4914	4894	4930
25°	4808	4795	4805
30°	4656	4647	4636
35°	4480	4446	4428
40°	4241	4192	4158
45°	3967	3894	3847
50°	3645	3547	3487
55°	3325	3202	3109
60°	3019	2857	2783
65°	2720	2566	2523
70°	2491	2329	2393
75°	2327	2220	2385
80°	2309	2266	2490
85°	2353	2374	2714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.4	4.0
10°-20°	1004.7	11.4
20°-30°	1484.3	16.9
30°-40°	1687.5	19.2
40°-50°	1575.8	17.9
50°-60°	1225.5	13.9
60°-70°	813.1	9.3
70°-80°	470.6	5.4
80°-90°	171.1	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°	2842.3	32.4
0°-40°	4529.8	51.6
0°-60°	7331.1	83.4
0°-90°	8786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3734	3734	3734	3734	3734	
5°	3737	3718	3716	3723	3731	355
15°	3580	3562	3561	3560	3583	1009
25°	3238	3224	3230	3223	3237	1489
35°	2727	2714	2707	2688	2696	1703
45°	2085	2068	2046	2020	2022	1606
55°	1417	1397	1365	1329	1325	1271
65°	854	828	806	791	792	854
75°	448	437	427	446	459	479
85°	152	150	154	174	176	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3734.0	3734.0	3734.0	3734.0	3734.0
2.5°	3739.5	3728.6	3734.0	3729.9	3742.3
5°	3736.8	3717.6	3716.2	3723.1	3731.3
7.5°	3710.7	3690.1	3694.2	3694.2	3708.0
10°	3679.1	3658.5	3661.3	3662.6	3677.7
12.5°	3636.5	3615.9	3617.3	3615.9	3631.1
15°	3580.2	3562.4	3561.0	3559.6	3583.0
17.5°	3511.6	3486.9	3495.1	3496.5	3508.8
20°	3431.9	3412.7	3418.2	3416.8	3442.9
22.5°	3337.2	3323.4	3327.5	3324.8	3349.5
25°	3238.3	3224.5	3230.0	3223.2	3236.9
27.5°	3127.0	3117.4	3111.9	3107.8	3117.4
30°	2996.6	2991.1	2991.1	2973.2	2984.2
32.5°	2873.0	2855.1	2855.1	2848.3	2841.4
35°	2727.4	2713.7	2706.8	2687.6	2695.8
37.5°	2581.8	2550.2	2547.5	2532.4	2532.4
40°	2414.3	2396.4	2386.8	2370.3	2367.6
42.5°	2255.0	2237.1	2220.7	2193.2	2187.7
45°	2084.7	2068.2	2046.2	2020.1	2021.5
47.5°	1915.8	1892.4	1871.8	1840.2	1836.1
50°	1741.4	1724.9	1694.7	1667.2	1665.8
52.5°	1577.9	1551.8	1524.4	1491.4	1491.4
55°	1417.3	1396.7	1365.1	1329.4	1325.3
57.5°	1263.5	1244.2	1208.5	1182.4	1175.6
60°	1122.0	1094.5	1061.6	1039.6	1034.1
62.5°	980.5	955.8	931.1	909.1	907.8
65°	854.2	828.1	806.1	791.0	792.4
67.5°	740.2	718.2	693.5	689.4	690.8
70°	633.1	609.8	591.9	601.5	608.4
72.5°	531.5	519.1	506.8	520.5	530.1
75°	447.7	436.7	427.1	446.3	458.7
77.5°	370.8	362.6	361.2	377.7	388.6
80°	298.0	288.4	292.5	311.7	321.4
82.5°	226.6	219.7	221.1	244.5	251.3
85°	152.4	149.7	153.8	174.4	175.8
87.5°	81.0	81.0	83.8	96.1	92.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)