

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: P293278

Luminaire Tested: **24GR-LD5-85-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293278  
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-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7606.0 lumens  
Efficiency: N/A  
Efficacy: 121.9 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

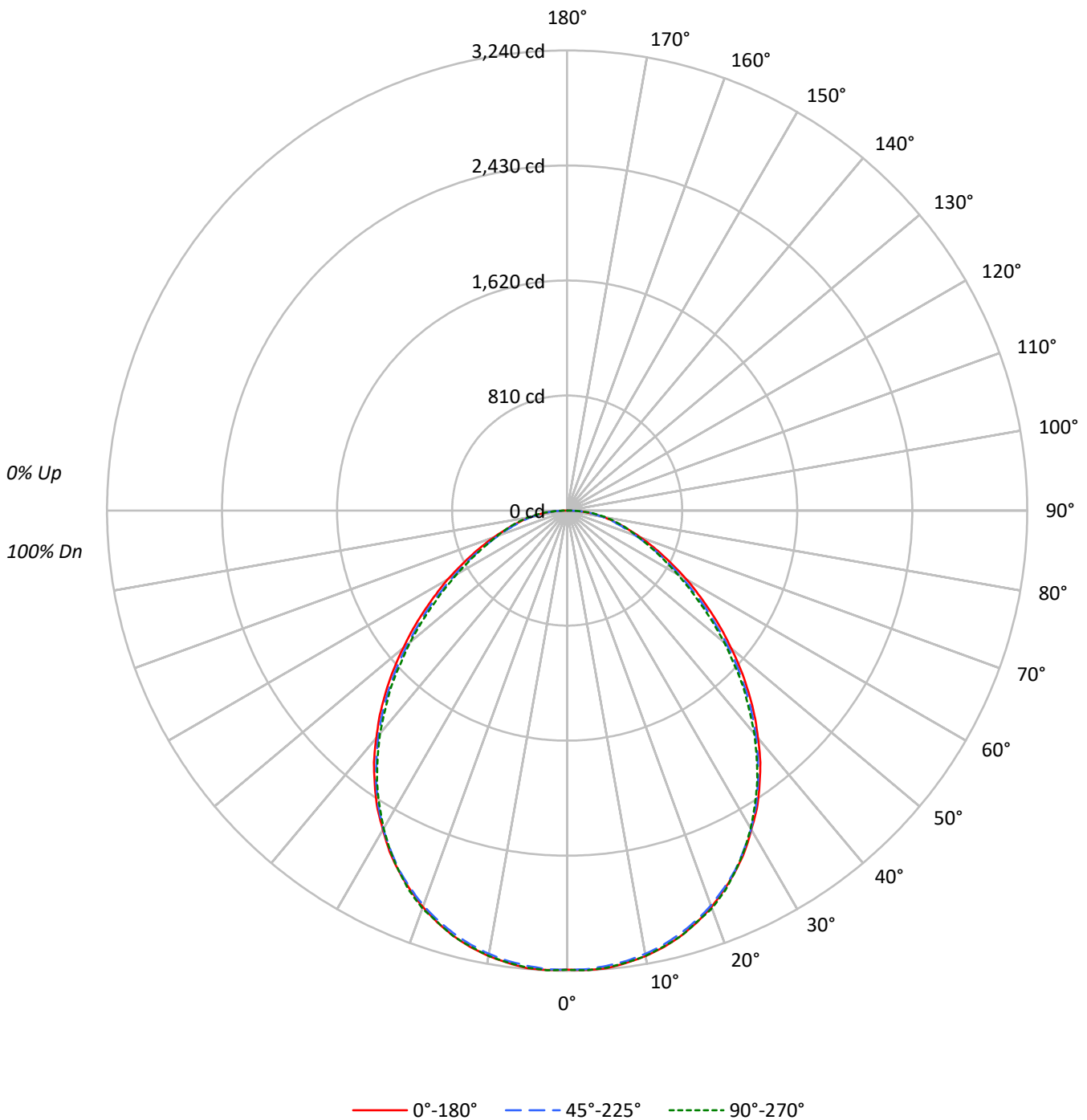
Input Watts (W): 62.403  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4349	4349	4349
5°	4369	4345	4363
10°	4351	4330	4350
15°	4317	4294	4321
20°	4254	4237	4268
25°	4162	4151	4160
30°	4030	4023	4014
35°	3878	3849	3833
40°	3671	3629	3600
45°	3434	3371	3330
50°	3156	3071	3019
55°	2878	2772	2691
60°	2614	2473	2409
65°	2354	2222	2184
70°	2156	2016	2072
75°	2015	1922	2064
80°	1999	1962	2156
85°	2038	2056	2350



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.9	4.0
10°-20°	869.8	11.4
20°-30°	1284.9	16.9
30°-40°	1460.8	19.2
40°-50°	1364.2	17.9
50°-60°	1060.9	13.9
60°-70°	703.9	9.3
70°-80°	407.4	5.4
80°-90°	148.1	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°	2460.6	32.4
0°-40°	3921.5	51.6
0°-60°	6346.6	83.4
0°-90°	7606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7606.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3232	3232	3232	3232	3232	
5°	3235	3218	3217	3223	3230	307
15°	3099	3084	3083	3082	3102	873
25°	2803	2792	2796	2790	2802	1289
35°	2361	2349	2343	2327	2334	1474
45°	1805	1790	1771	1749	1750	1391
55°	1227	1209	1182	1151	1147	1100
65°	740	717	698	685	686	739
75°	388	378	370	386	397	415
85°	132	130	133	151	152	143
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3232.5	3232.5	3232.5	3232.5	3232.5
2.5°	3237.3	3227.8	3232.5	3229.0	3239.7
5°	3234.9	3218.3	3217.1	3223.0	3230.2
7.5°	3212.3	3194.5	3198.1	3198.1	3210.0
10°	3185.0	3167.2	3169.5	3170.7	3183.8
12.5°	3148.1	3130.3	3131.5	3130.3	3143.4
15°	3099.4	3083.9	3082.8	3081.6	3101.8
17.5°	3040.0	3018.6	3025.7	3026.9	3037.6
20°	2971.0	2954.4	2959.1	2957.9	2980.5
22.5°	2889.0	2877.1	2880.6	2878.3	2899.7
25°	2803.4	2791.5	2796.2	2790.3	2802.2
27.5°	2707.1	2698.7	2694.0	2690.4	2698.7
30°	2594.1	2589.4	2589.4	2573.9	2583.4
32.5°	2487.1	2471.7	2471.7	2465.7	2459.8
35°	2361.1	2349.2	2343.3	2326.6	2333.8
37.5°	2235.1	2207.7	2205.4	2192.3	2192.3
40°	2090.0	2074.6	2066.3	2052.0	2049.6
42.5°	1952.1	1936.7	1922.4	1898.6	1893.9
45°	1804.7	1790.4	1771.4	1748.8	1750.0
47.5°	1658.5	1638.3	1620.4	1593.1	1589.5
50°	1507.5	1493.2	1467.1	1443.3	1442.1
52.5°	1366.0	1343.4	1319.7	1291.1	1291.1
55°	1226.9	1209.1	1181.7	1150.8	1147.3
57.5°	1093.8	1077.1	1046.2	1023.6	1017.7
60°	971.3	947.5	919.0	900.0	895.2
62.5°	848.9	827.5	806.1	787.0	785.8
65°	739.5	716.9	697.9	684.8	686.0
67.5°	640.8	621.8	600.4	596.8	598.0
70°	548.1	527.9	512.4	520.7	526.7
72.5°	460.1	449.4	438.7	450.6	458.9
75°	387.6	378.1	369.7	386.4	397.1
77.5°	321.0	313.9	312.7	326.9	336.5
80°	258.0	249.7	253.2	269.9	278.2
82.5°	196.2	190.2	191.4	211.6	217.6
85°	132.0	129.6	133.2	151.0	152.2
87.5°	70.1	70.1	72.5	83.2	79.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)