

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: P293283

Luminaire Tested: **24GR-LD5-85-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293283  
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-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8535.0 lumens  
Efficiency: N/A  
Efficacy: 133.6 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

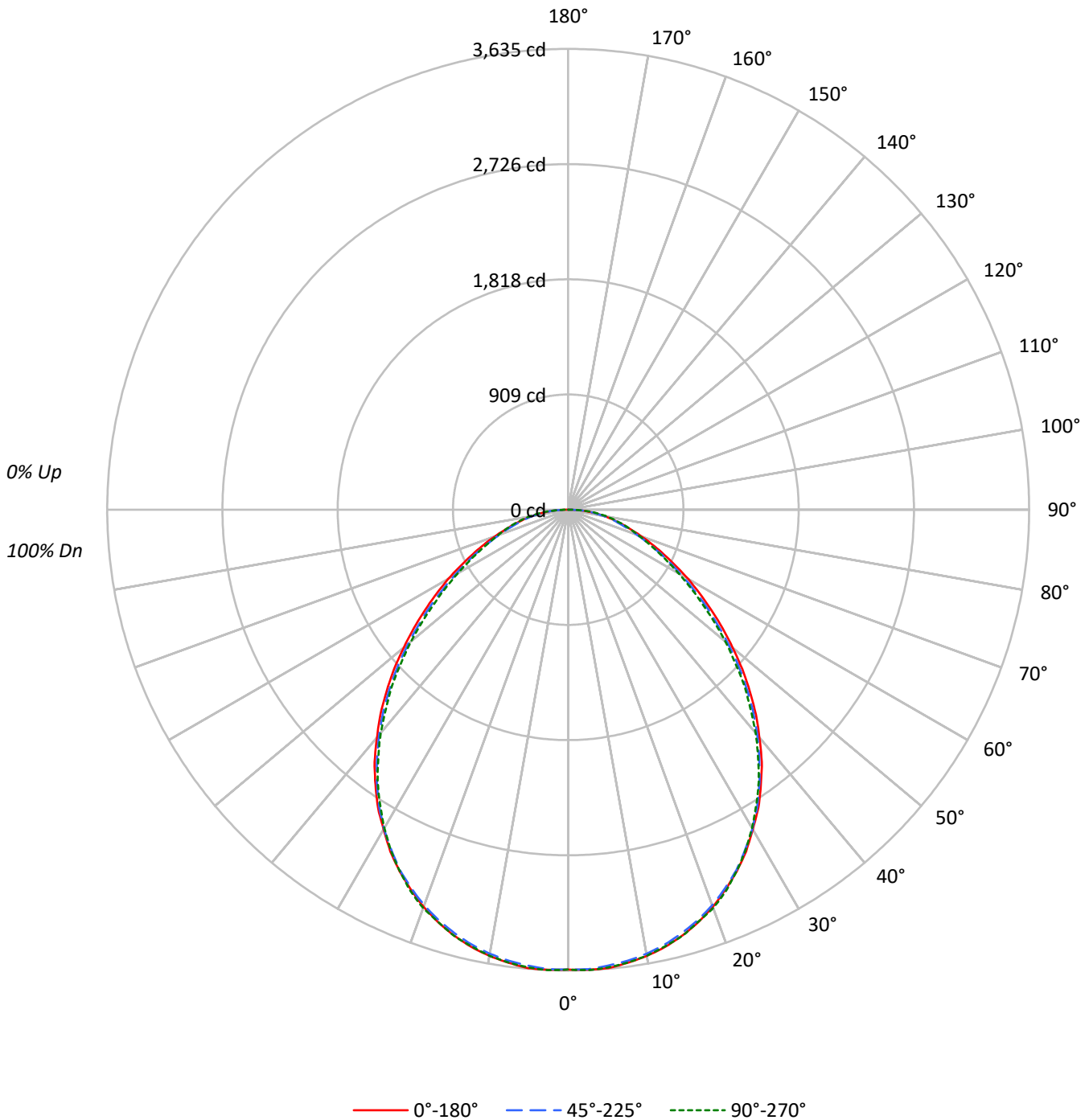
Input Watts (W): 63.891  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4881	4881	4881
5°	4903	4876	4896
10°	4883	4859	4881
15°	4845	4819	4848
20°	4774	4754	4789
25°	4670	4658	4668
30°	4523	4514	4504
35°	4352	4319	4301
40°	4119	4072	4040
45°	3853	3782	3737
50°	3541	3446	3387
55°	3230	3111	3020
60°	2933	2775	2703
65°	2642	2493	2451
70°	2419	2262	2325
75°	2261	2157	2316
80°	2243	2202	2419
85°	2286	2306	2637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.3	4.0
10°-20°	976.0	11.4
20°-30°	1441.9	16.9
30°-40°	1639.3	19.2
40°-50°	1530.8	17.9
50°-60°	1190.5	13.9
60°-70°	789.9	9.3
70°-80°	457.1	5.4
80°-90°	166.2	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°	2761.2	32.4
0°-40°	4400.4	51.6
0°-60°	7121.7	83.4
0°-90°	8535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8535.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3627	3627	3627	3627	3627	
5°	3630	3611	3610	3617	3625	344
15°	3478	3461	3459	3458	3481	980
25°	3146	3132	3138	3131	3144	1446
35°	2650	2636	2630	2611	2619	1654
45°	2025	2009	1988	1962	1964	1560
55°	1377	1357	1326	1291	1287	1235
65°	830	804	783	768	770	829
75°	435	424	415	434	446	465
85°	148	145	149	169	171	161
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3627.4	3627.4	3627.4	3627.4	3627.4
2.5°	3632.7	3622.0	3627.4	3623.4	3635.4
5°	3630.0	3611.4	3610.0	3616.7	3624.7
7.5°	3604.7	3584.7	3588.7	3588.7	3602.0
10°	3574.0	3554.0	3556.7	3558.0	3572.7
12.5°	3532.7	3512.6	3514.0	3512.6	3527.3
15°	3478.0	3460.6	3459.3	3457.9	3480.6
17.5°	3411.3	3387.2	3395.2	3396.6	3408.6
20°	3333.9	3315.2	3320.5	3319.2	3344.5
22.5°	3241.8	3228.5	3232.5	3229.8	3253.8
25°	3145.8	3132.4	3137.8	3131.1	3144.4
27.5°	3037.7	3028.4	3023.0	3019.0	3028.4
30°	2911.0	2905.6	2905.6	2888.3	2899.0
32.5°	2790.9	2773.6	2773.6	2766.9	2760.2
35°	2649.5	2636.1	2629.5	2610.8	2618.8
37.5°	2508.1	2477.4	2474.7	2460.1	2460.1
40°	2345.3	2328.0	2318.6	2302.6	2300.0
42.5°	2190.6	2173.2	2157.2	2130.5	2125.2
45°	2025.1	2009.1	1987.8	1962.4	1963.8
47.5°	1861.0	1838.4	1818.4	1787.7	1783.7
50°	1691.6	1675.6	1646.3	1619.6	1618.2
52.5°	1532.9	1507.5	1480.8	1448.8	1448.8
55°	1376.8	1356.8	1326.1	1291.4	1287.4
57.5°	1227.4	1208.7	1174.0	1148.6	1142.0
60°	1089.9	1063.3	1031.2	1009.9	1004.6
62.5°	952.5	928.5	904.5	883.2	881.8
65°	829.8	804.5	783.1	768.4	769.8
67.5°	719.1	697.7	673.7	669.7	671.0
70°	615.0	592.3	575.0	584.3	591.0
72.5°	516.3	504.3	492.3	505.6	515.0
75°	434.9	424.2	414.9	433.6	445.6
77.5°	360.2	352.2	350.9	366.9	377.5
80°	289.5	280.2	284.2	302.8	312.2
82.5°	220.1	213.5	214.8	237.5	244.1
85°	148.1	145.4	149.4	169.4	170.8
87.5°	78.7	78.7	81.4	93.4	89.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)