

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: P293410

Luminaire Tested: **24GR-LD5-85-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293410  
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-L92765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7781.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 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

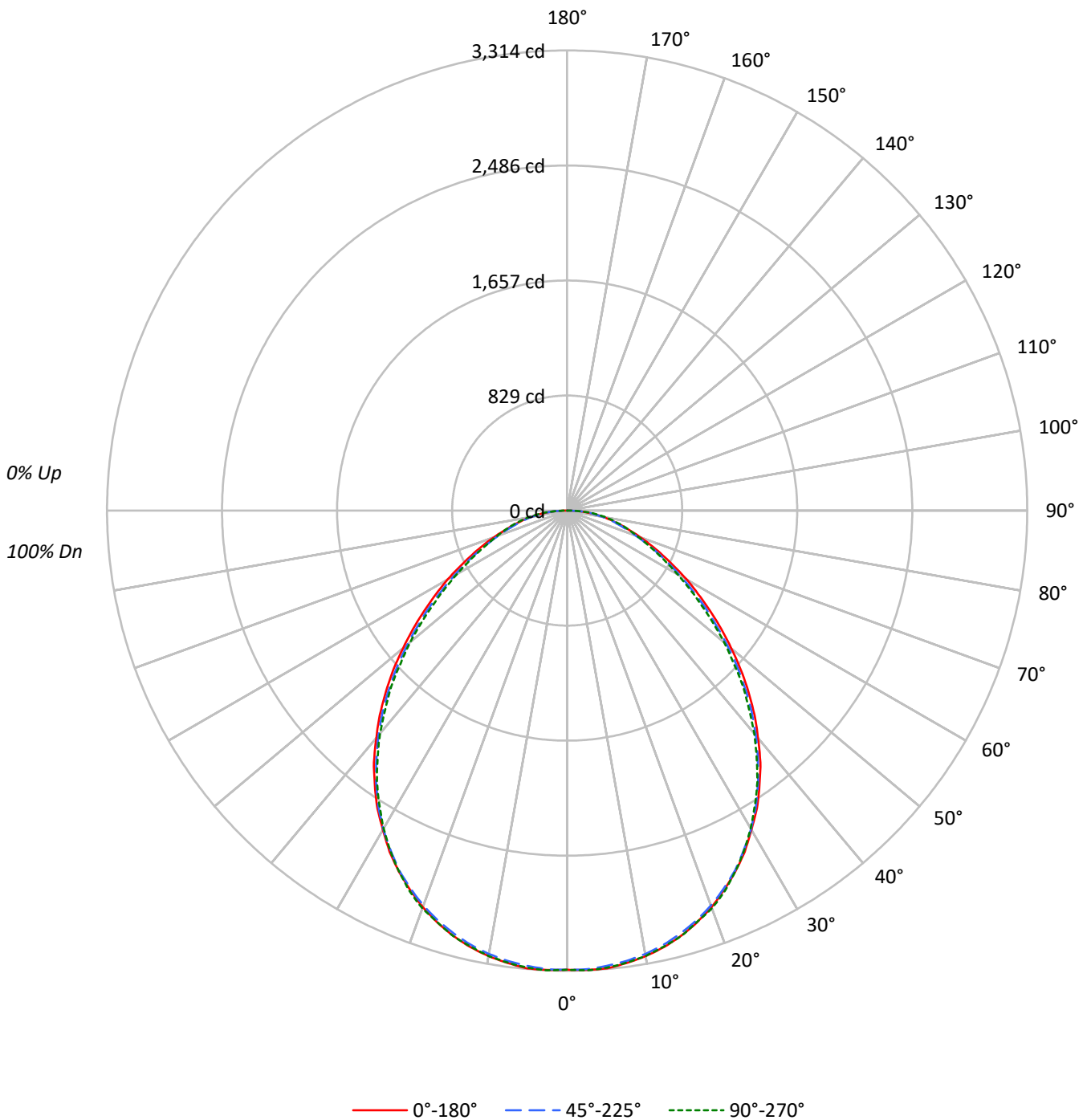
Input Watts (W): 64.17  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4449	4449	4449
5°	4470	4445	4463
10°	4452	4430	4450
15°	4417	4393	4420
20°	4352	4334	4366
25°	4258	4247	4256
30°	4123	4115	4106
35°	3967	3937	3922
40°	3755	3713	3683
45°	3513	3448	3407
50°	3228	3141	3088
55°	2944	2836	2753
60°	2674	2530	2464
65°	2408	2273	2234
70°	2206	2062	2120
75°	2061	1966	2112
80°	2045	2008	2205
85°	2084	2103	2404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.0	4.0
10°-20°	889.8	11.4
20°-30°	1314.5	16.9
30°-40°	1494.4	19.2
40°-50°	1395.6	17.9
50°-60°	1085.3	13.9
60°-70°	720.1	9.3
70°-80°	416.8	5.4
80°-90°	151.5	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°	2517.2	32.4
0°-40°	4011.7	51.6
0°-60°	6492.6	83.4
0°-90°	7781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7781.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3307	3307	3307	3307	3307	
5°	3309	3292	3291	3297	3304	314
15°	3171	3155	3154	3152	3173	893
25°	2868	2856	2861	2854	2867	1319
35°	2415	2403	2397	2380	2388	1508
45°	1846	1832	1812	1789	1790	1423
55°	1255	1237	1209	1177	1174	1126
65°	756	733	714	700	702	756
75°	396	387	378	395	406	424
85°	135	133	136	154	156	147
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3306.9	3306.9	3306.9	3306.9	3306.9
2.5°	3311.8	3302.1	3306.9	3303.3	3314.2
5°	3309.4	3292.3	3291.1	3297.2	3304.5
7.5°	3286.2	3268.0	3271.7	3271.7	3283.8
10°	3258.3	3240.0	3242.5	3243.7	3257.1
12.5°	3220.6	3202.3	3203.5	3202.3	3215.7
15°	3170.7	3154.9	3153.7	3152.5	3173.1
17.5°	3109.9	3088.0	3095.3	3096.5	3107.5
20°	3039.4	3022.3	3027.2	3026.0	3049.1
22.5°	2955.4	2943.3	2946.9	2944.5	2966.4
25°	2867.9	2855.7	2860.6	2854.5	2866.6
27.5°	2769.4	2760.8	2756.0	2752.3	2760.8
30°	2653.8	2648.9	2648.9	2633.1	2642.9
32.5°	2544.3	2528.5	2528.5	2522.5	2516.4
35°	2415.4	2403.3	2397.2	2380.2	2387.5
37.5°	2286.5	2258.5	2256.1	2242.7	2242.7
40°	2138.1	2122.3	2113.8	2099.2	2096.8
42.5°	1997.0	1981.2	1966.6	1942.3	1937.5
45°	1846.2	1831.6	1812.2	1789.1	1790.3
47.5°	1696.6	1676.0	1657.7	1629.7	1626.1
50°	1542.2	1527.6	1500.8	1476.5	1475.3
52.5°	1397.4	1374.3	1350.0	1320.8	1320.8
55°	1255.1	1236.9	1208.9	1177.3	1173.7
57.5°	1118.9	1101.9	1070.3	1047.2	1041.1
60°	993.7	969.3	940.1	920.7	915.8
62.5°	868.4	846.5	824.6	805.1	803.9
65°	756.5	733.4	713.9	700.5	701.8
67.5°	655.5	636.1	614.2	610.5	611.8
70°	560.7	540.0	524.2	532.7	538.8
72.5°	470.7	459.7	448.8	461.0	469.5
75°	396.5	386.8	378.2	395.3	406.2
77.5°	328.4	321.1	319.9	334.5	344.2
80°	263.9	255.4	259.1	276.1	284.6
82.5°	200.7	194.6	195.8	216.5	222.6
85°	135.0	132.6	136.2	154.5	155.7
87.5°	71.8	71.8	74.2	85.1	81.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)