

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: P293916

Luminaire Tested: **24GR-LD5-85-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-85-A125-UNV-L92765-W2A1-U-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7882.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

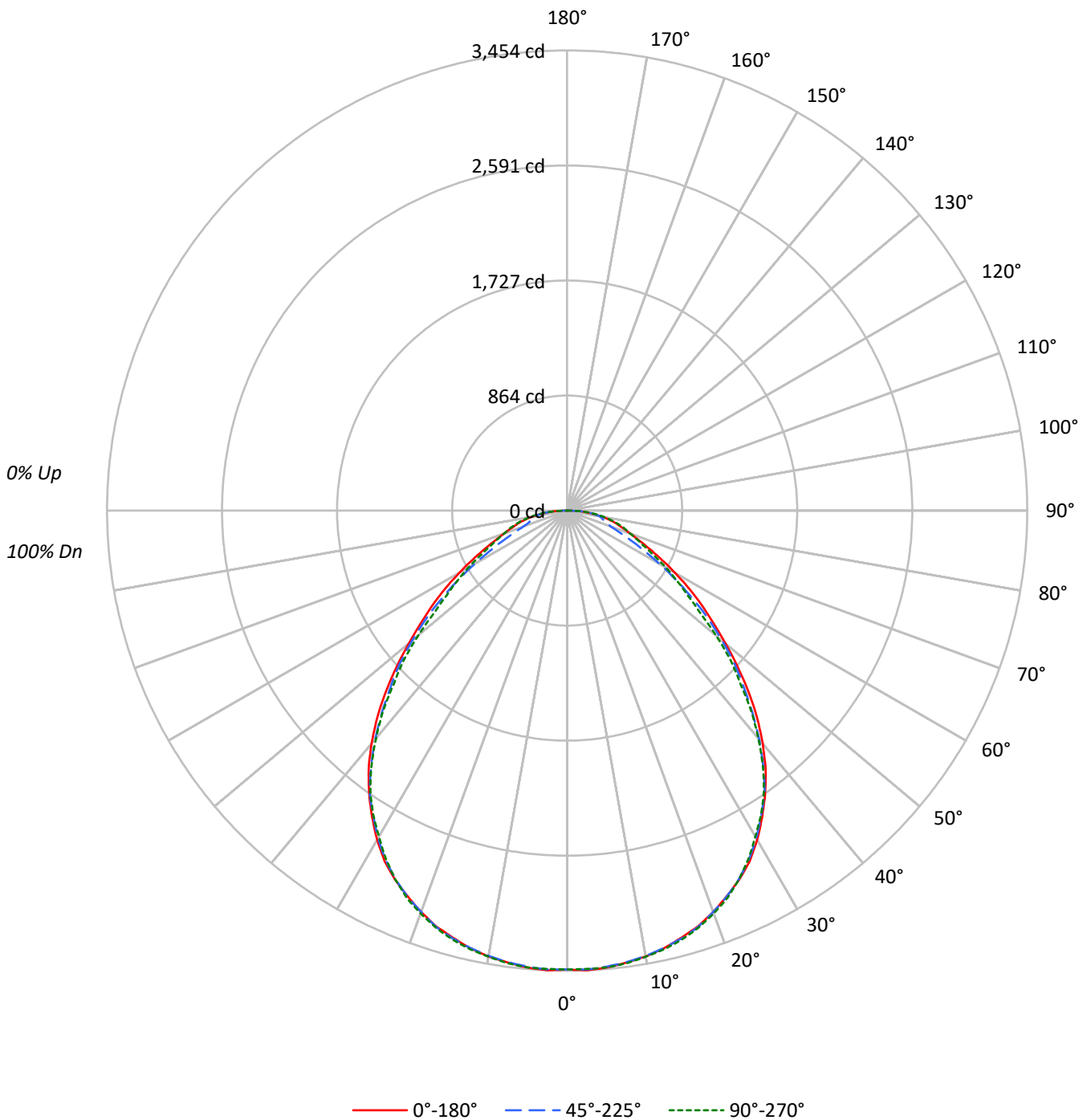
Input Watts (W): 65.286  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4634	4634	4634
5°	4650	4640	4648
10°	4643	4637	4645
15°	4621	4630	4642
20°	4590	4590	4608
25°	4538	4529	4533
30°	4432	4409	4388
35°	4257	4245	4229
40°	4011	3937	3920
45°	3669	3568	3503
50°	3243	3179	3055
55°	2884	2688	2584
60°	2511	2151	2306
65°	2169	1668	2039
70°	1978	1364	1974
75°	1994	1470	2097
80°	2077	1915	2211
85°	2164	2279	2448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.7	4.1
10°-20°	937.0	11.9
20°-30°	1402.6	17.8
30°-40°	1602.7	20.3
40°-50°	1449.0	18.4
50°-60°	1042.5	13.2
60°-70°	604.3	7.7
70°-80°	358.5	4.5
80°-90°	158.8	2.0
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°	2666.3	33.8
0°-40°	4268.9	54.2
0°-60°	6760.4	85.8
0°-90°	7882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7882.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3444	3444	3444	3444	3444	
5°	3443	3438	3436	3431	3442	327
15°	3318	3324	3324	3320	3332	937
25°	3057	3053	3051	3044	3053	1405
35°	2592	2580	2585	2553	2575	1616
45°	1928	1895	1875	1858	1841	1481
55°	1230	1206	1146	1116	1102	1100
65°	681	605	524	585	641	688
75°	384	321	283	349	403	405
85°	140	151	148	170	159	150
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3444.2	3444.2	3444.2	3444.2	3444.2
2.5°	3454.0	3441.7	3447.8	3444.2	3442.9
5°	3442.9	3438.0	3435.6	3430.6	3441.7
7.5°	3420.8	3417.1	3418.3	3419.6	3426.9
10°	3398.7	3392.5	3393.7	3396.2	3399.9
12.5°	3364.2	3360.5	3361.8	3364.2	3372.8
15°	3317.5	3323.7	3323.7	3320.0	3332.3
17.5°	3270.8	3269.6	3275.7	3264.6	3281.9
20°	3205.6	3206.8	3205.6	3206.8	3217.9
22.5°	3131.8	3138.0	3134.3	3134.3	3146.6
25°	3056.8	3053.1	3050.7	3044.5	3053.1
27.5°	2967.1	2959.7	2953.5	2941.2	2947.4
30°	2852.7	2853.9	2838.0	2826.9	2824.4
32.5°	2724.8	2724.8	2710.1	2701.5	2708.8
35°	2592.0	2579.7	2584.7	2552.7	2574.8
37.5°	2448.2	2428.5	2417.4	2406.4	2413.7
40°	2283.4	2257.6	2241.6	2219.5	2231.8
42.5°	2110.0	2078.1	2058.4	2042.4	2047.3
45°	1928.0	1894.8	1875.2	1858.0	1840.7
47.5°	1736.2	1715.3	1705.5	1683.3	1663.7
50°	1549.3	1541.9	1518.6	1500.1	1459.6
52.5°	1378.4	1372.3	1335.4	1304.6	1253.0
55°	1229.6	1206.3	1146.0	1116.5	1101.7
57.5°	1078.4	1040.3	967.7	964.0	973.9
60°	933.3	886.6	799.3	818.9	857.0
62.5°	801.7	731.6	648.0	694.7	740.2
65°	681.2	605.0	523.8	585.3	640.6
67.5°	581.6	505.4	421.8	504.1	568.1
70°	502.9	425.4	346.8	441.4	501.7
72.5°	437.7	367.7	302.5	392.2	455.0
75°	383.6	320.9	282.8	349.2	403.3
77.5°	329.5	279.1	270.5	311.1	344.3
80°	268.1	244.7	247.2	273.0	285.3
82.5°	200.4	201.7	207.8	228.7	223.8
85°	140.2	151.2	147.6	169.7	158.6
87.5°	77.5	84.8	79.9	97.1	87.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)