

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: P293707

Luminaire Tested: **24GR-LD5-85-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293707  
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-L83050-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8719.0 lumens  
Efficiency: N/A  
Efficacy: 136.7 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

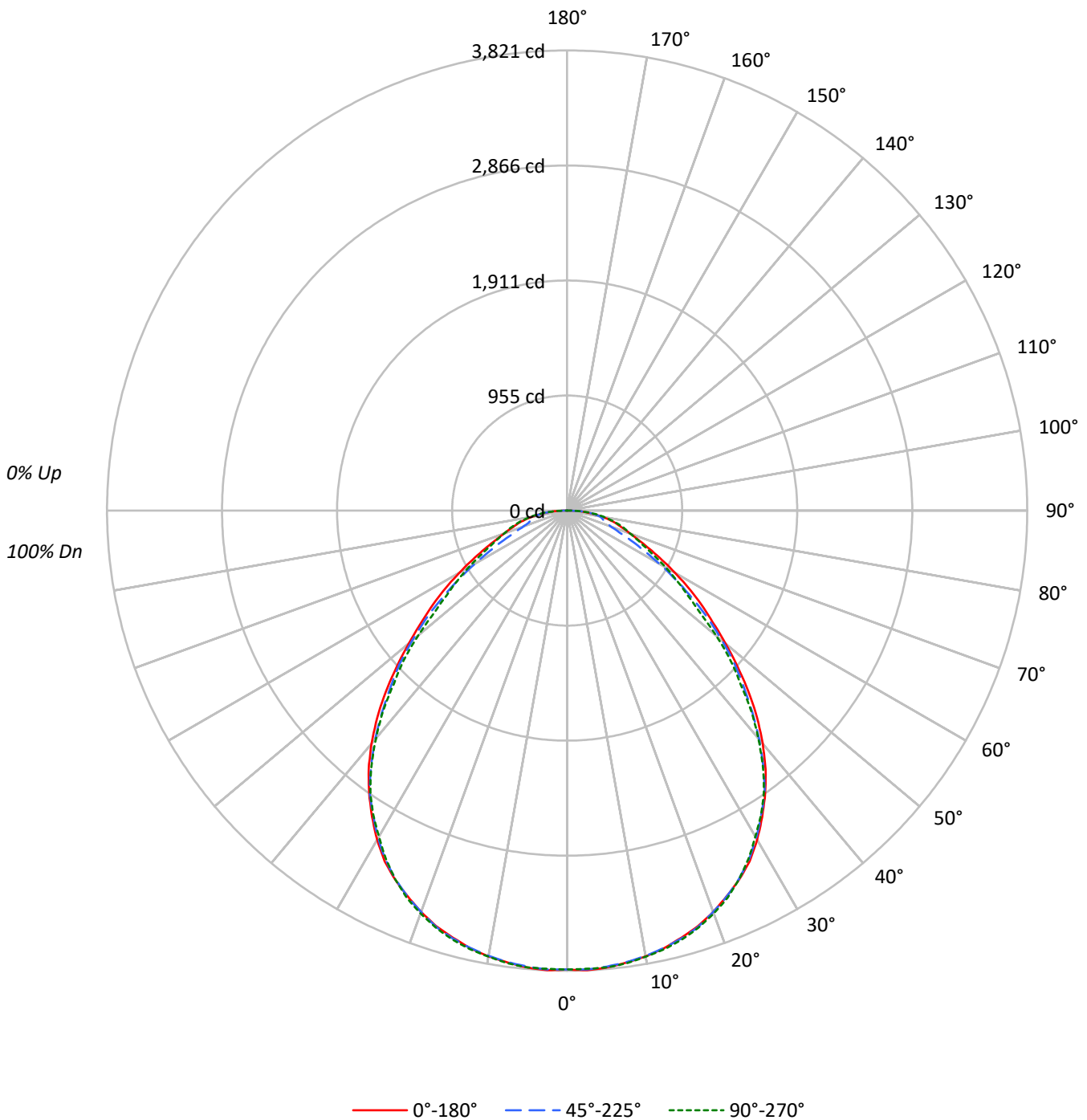
Input Watts (W): 63.798  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93		95	93	90		91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68		76	71	67		73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59		68	63	58		66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46		57	50	46		55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41		52	46	41		51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37		48	41	37		47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34		44	38	33		43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31		41	35	31		40	35	30	29

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

	0°	45°	90°
0°	5126	5126	5126
5°	5144	5133	5142
10°	5137	5129	5138
15°	5112	5121	5135
20°	5077	5077	5097
25°	5020	5010	5014
30°	4903	4877	4854
35°	4710	4696	4678
40°	4437	4355	4336
45°	4058	3947	3875
50°	3587	3516	3379
55°	3191	2974	2859
60°	2778	2379	2551
65°	2399	1845	2256
70°	2188	1509	2183
75°	2206	1626	2319
80°	2297	2118	2445
85°	2394	2519	2709



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.4	4.1
10°-20°	1036.5	11.9
20°-30°	1551.5	17.8
30°-40°	1772.9	20.3
40°-50°	1602.8	18.4
50°-60°	1153.2	13.2
60°-70°	668.5	7.7
70°-80°	396.6	4.5
80°-90°	175.7	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°	2949.4	33.8
0°-40°	4722.3	54.2
0°-60°	7478.3	85.8
0°-90°	8719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8719.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3810	3810	3810	3810	3810	
5°	3808	3803	3800	3795	3807	362
15°	3670	3677	3677	3672	3686	1036
25°	3381	3377	3375	3368	3377	1555
35°	2867	2854	2859	2824	2848	1788
45°	2133	2096	2074	2055	2036	1638
55°	1360	1334	1268	1235	1219	1217
65°	754	669	579	648	709	761
75°	424	355	313	386	446	449
85°	155	167	163	188	176	166
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3809.9	3809.9	3809.9	3809.9	3809.9
2.5°	3820.8	3807.2	3814.0	3809.9	3808.5
5°	3808.5	3803.1	3800.4	3794.9	3807.2
7.5°	3784.1	3780.0	3781.3	3782.7	3790.9
10°	3759.6	3752.8	3754.1	3756.9	3760.9
12.5°	3721.5	3717.4	3718.8	3721.5	3731.0
15°	3669.8	3676.6	3676.6	3672.5	3686.1
17.5°	3618.1	3616.8	3623.6	3611.3	3630.4
20°	3546.0	3547.4	3546.0	3547.4	3559.6
22.5°	3464.4	3471.2	3467.1	3467.1	3480.7
25°	3381.4	3377.4	3374.6	3367.8	3377.4
27.5°	3282.1	3274.0	3267.2	3253.6	3260.4
30°	3155.6	3157.0	3139.3	3127.1	3124.4
32.5°	3014.2	3014.2	2997.9	2988.3	2996.5
35°	2867.3	2853.7	2859.1	2823.8	2848.2
37.5°	2708.1	2686.4	2674.1	2661.9	2670.1
40°	2525.9	2497.3	2479.6	2455.1	2468.7
42.5°	2334.1	2298.7	2277.0	2259.3	2264.7
45°	2132.8	2096.1	2074.3	2055.3	2036.2
47.5°	1920.6	1897.5	1886.6	1862.1	1840.3
50°	1713.8	1705.7	1679.8	1659.4	1614.5
52.5°	1524.8	1518.0	1477.2	1443.2	1386.0
55°	1360.2	1334.3	1267.7	1235.1	1218.7
57.5°	1192.9	1150.7	1070.5	1066.4	1077.3
60°	1032.4	980.7	884.1	905.9	948.1
62.5°	886.8	809.3	716.8	768.5	818.8
65°	753.5	669.2	579.4	647.5	708.7
67.5°	643.4	559.0	466.5	557.7	628.4
70°	556.3	470.6	383.6	488.3	555.0
72.5°	484.2	406.7	334.6	433.9	503.3
75°	424.4	355.0	312.8	386.3	446.1
77.5°	364.5	308.8	299.2	344.1	380.9
80°	296.5	270.7	273.4	302.0	315.6
82.5°	221.7	223.1	229.9	253.0	247.6
85°	155.1	167.3	163.2	187.7	175.5
87.5°	85.7	93.9	88.4	107.5	96.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)