

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: P293787

Luminaire Tested: **24GR-LD5-85-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293787  
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-L82765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8551.0 lumens  
Efficiency: N/A  
Efficacy: 133.8 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

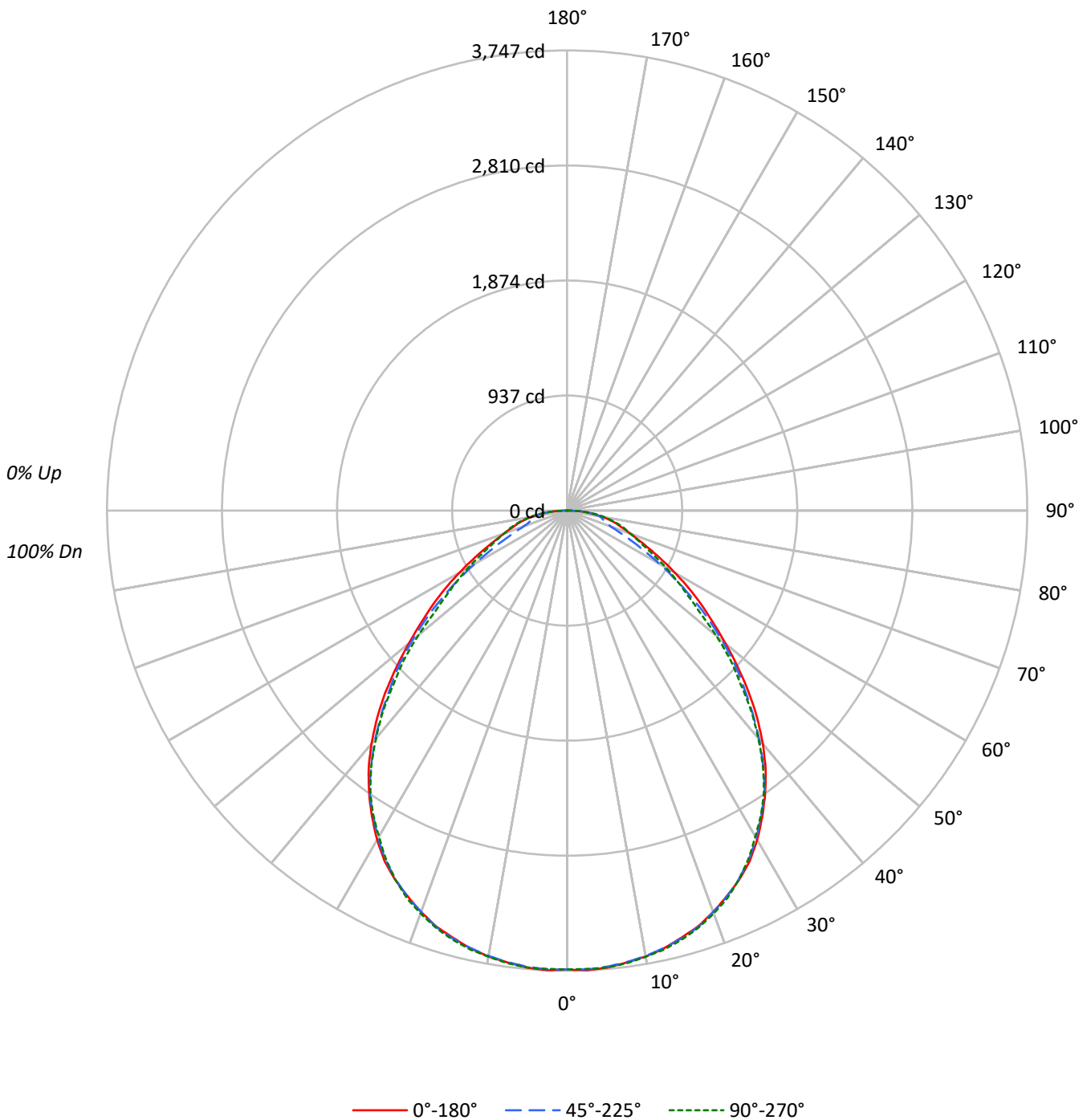
Input Watts (W): 63.891  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	5027	5027	5027
5°	5045	5034	5043
10°	5037	5030	5039
15°	5013	5023	5036
20°	4980	4980	4999
25°	4923	4913	4917
30°	4808	4783	4761
35°	4619	4606	4588
40°	4351	4271	4253
45°	3980	3871	3800
50°	3518	3449	3314
55°	3129	2917	2804
60°	2725	2333	2502
65°	2353	1809	2213
70°	2146	1480	2141
75°	2164	1595	2274
80°	2253	2077	2398
85°	2348	2472	2657



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.4	4.1
10°-20°	1016.5	11.9
20°-30°	1521.6	17.8
30°-40°	1738.7	20.3
40°-50°	1572.0	18.4
50°-60°	1130.9	13.2
60°-70°	655.6	7.7
70°-80°	388.9	4.5
80°-90°	172.2	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°	2892.6	33.8
0°-40°	4631.3	54.2
0°-60°	7334.2	85.8
0°-90°	8551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8551.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3736	3736	3736	3736	3736	
5°	3735	3730	3727	3722	3734	355
15°	3599	3606	3606	3602	3615	1016
25°	3316	3312	3310	3303	3312	1525
35°	2812	2799	2804	2769	2793	1753
45°	2092	2056	2034	2016	1997	1607
55°	1334	1309	1243	1211	1195	1193
65°	739	656	568	635	695	746
75°	416	348	307	379	438	440
85°	152	164	160	184	172	163
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3736.5	3736.5	3736.5	3736.5	3736.5
2.5°	3747.2	3733.8	3740.5	3736.5	3735.2
5°	3735.2	3729.8	3727.2	3721.8	3733.8
7.5°	3711.1	3707.1	3708.5	3709.8	3717.8
10°	3687.1	3680.5	3681.8	3684.5	3688.5
12.5°	3649.8	3645.8	3647.1	3649.8	3659.1
15°	3599.1	3605.8	3605.8	3601.8	3615.1
17.5°	3548.4	3547.1	3553.7	3541.7	3560.4
20°	3477.7	3479.0	3477.7	3479.0	3491.0
22.5°	3397.7	3404.3	3400.3	3400.3	3413.7
25°	3316.3	3312.3	3309.6	3302.9	3312.3
27.5°	3218.9	3210.9	3204.2	3190.9	3197.6
30°	3094.8	3096.2	3078.8	3066.8	3064.2
32.5°	2956.1	2956.1	2940.1	2930.8	2938.8
35°	2812.0	2798.7	2804.0	2769.4	2793.4
37.5°	2656.0	2634.6	2622.6	2610.6	2618.6
40°	2477.2	2449.2	2431.9	2407.8	2421.2
42.5°	2289.1	2254.4	2233.1	2215.7	2221.1
45°	2091.7	2055.7	2034.3	2015.7	1997.0
47.5°	1883.6	1860.9	1850.2	1826.2	1804.9
50°	1680.8	1672.8	1647.5	1627.5	1583.4
52.5°	1495.4	1488.7	1448.7	1415.4	1359.3
55°	1334.0	1308.6	1243.3	1211.3	1195.2
57.5°	1169.9	1128.6	1049.8	1045.8	1056.5
60°	1012.5	961.8	867.1	888.4	929.8
62.5°	869.8	793.7	703.0	753.7	803.1
65°	739.0	656.3	568.3	635.0	695.0
67.5°	631.0	548.3	457.6	546.9	616.3
70°	545.6	461.6	376.2	478.9	544.3
72.5°	474.9	398.9	328.2	425.5	493.6
75°	416.2	348.2	306.8	378.9	437.5
77.5°	357.5	302.8	293.5	337.5	373.5
80°	290.8	265.5	268.1	296.1	309.5
82.5°	217.4	218.8	225.4	248.1	242.8
85°	152.1	164.1	160.1	184.1	172.1
87.5°	84.0	92.0	86.7	105.4	94.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)