

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: P293708

Luminaire Tested: **24GR-LD5-85-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293708
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8802.0 lumens
Efficiency: N/A
Efficacy: 134.4 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

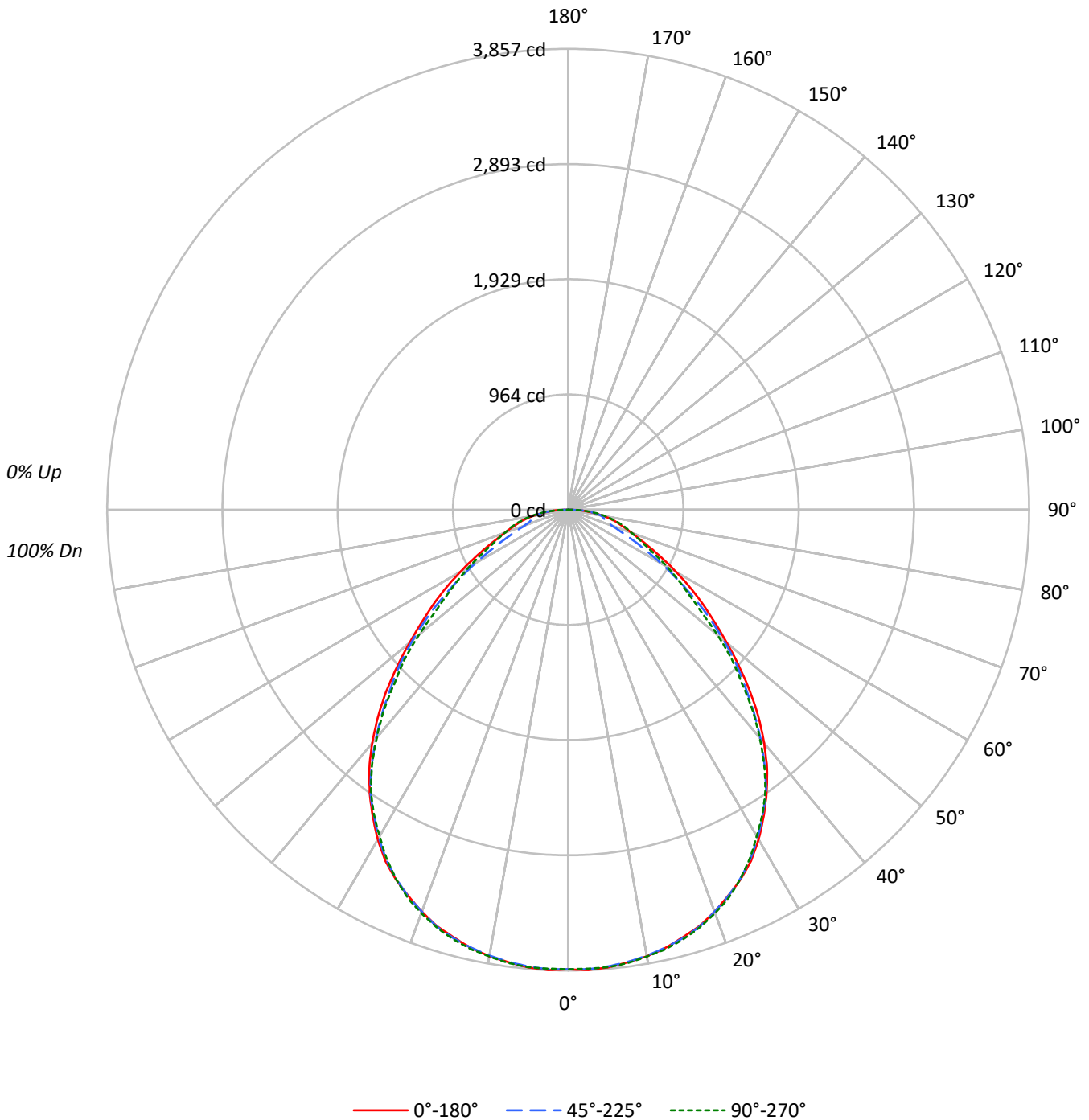
Input Watts (W): 65.472
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5175	5175	5175
5°	5193	5182	5191
10°	5185	5178	5187
15°	5160	5170	5183
20°	5126	5126	5145
25°	5068	5058	5062
30°	4949	4924	4900
35°	4754	4741	4723
40°	4479	4397	4378
45°	4097	3984	3911
50°	3622	3550	3412
55°	3221	3002	2886
60°	2805	2402	2576
65°	2422	1862	2278
70°	2209	1523	2204
75°	2227	1642	2341
80°	2319	2139	2469
85°	2416	2544	2734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.8	4.1
10°-20°	1046.4	11.9
20°-30°	1566.3	17.8
30°-40°	1789.7	20.3
40°-50°	1618.1	18.4
50°-60°	1164.1	13.2
60°-70°	674.9	7.7
70°-80°	400.3	4.5
80°-90°	177.3	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°	2977.5	33.8
0°-40°	4767.2	54.2
0°-60°	7549.5	85.8
0°-90°	8802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3846	3846	3846	3846	3846	
5°	3845	3839	3837	3831	3843	365
15°	3705	3712	3712	3708	3721	1046
25°	3414	3410	3407	3400	3410	1569
35°	2895	2881	2886	2851	2875	1805
45°	2153	2116	2094	2075	2056	1654
55°	1373	1347	1280	1247	1230	1228
65°	761	676	585	654	715	768
75°	428	358	316	390	450	453
85°	156	169	165	190	177	168
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3846.2	3846.2	3846.2	3846.2	3846.2
2.5°	3857.2	3843.4	3850.3	3846.2	3844.8
5°	3844.8	3839.3	3836.6	3831.1	3843.4
7.5°	3820.1	3816.0	3817.3	3818.7	3826.9
10°	3795.4	3788.5	3789.9	3792.6	3796.7
12.5°	3756.9	3752.8	3754.2	3756.9	3766.5
15°	3704.7	3711.6	3711.6	3707.5	3721.2
17.5°	3652.6	3651.2	3658.0	3645.7	3664.9
20°	3579.8	3581.2	3579.8	3581.2	3593.5
22.5°	3497.4	3504.3	3500.1	3500.1	3513.9
25°	3413.6	3409.5	3406.8	3399.9	3409.5
27.5°	3313.4	3305.2	3298.3	3284.6	3291.4
30°	3185.7	3187.1	3169.2	3156.9	3154.1
32.5°	3042.9	3042.9	3026.4	3016.8	3025.0
35°	2894.6	2880.8	2886.3	2850.6	2875.4
37.5°	2733.9	2712.0	2699.6	2687.2	2695.5
40°	2549.9	2521.1	2503.2	2478.5	2492.3
42.5°	2356.3	2320.6	2298.6	2280.8	2286.3
45°	2153.1	2116.0	2094.0	2074.8	2055.6
47.5°	1938.9	1915.5	1904.5	1879.8	1857.9
50°	1730.2	1721.9	1695.8	1675.2	1629.9
52.5°	1539.3	1532.4	1491.2	1456.9	1399.2
55°	1373.1	1347.1	1279.8	1246.8	1230.3
57.5°	1204.2	1161.7	1080.7	1076.5	1087.5
60°	1042.2	990.0	892.5	914.5	957.1
62.5°	895.3	817.0	723.6	775.8	826.6
65°	760.7	675.6	585.0	653.6	715.4
67.5°	649.5	564.4	471.0	563.0	634.4
70°	561.6	475.1	387.2	493.0	560.2
72.5°	488.8	410.6	337.8	438.0	508.1
75°	428.4	358.4	315.8	390.0	450.4
77.5°	368.0	311.7	302.1	347.4	384.5
80°	299.3	273.3	276.0	304.8	318.6
82.5°	223.8	225.2	232.1	255.4	249.9
85°	156.5	168.9	164.8	189.5	177.1
87.5°	86.5	94.7	89.3	108.5	97.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)