

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: P293705

Luminaire Tested: **24GR-LD5-85-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293705
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7848.0 lumens
Efficiency: N/A
Efficacy: 126.0 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

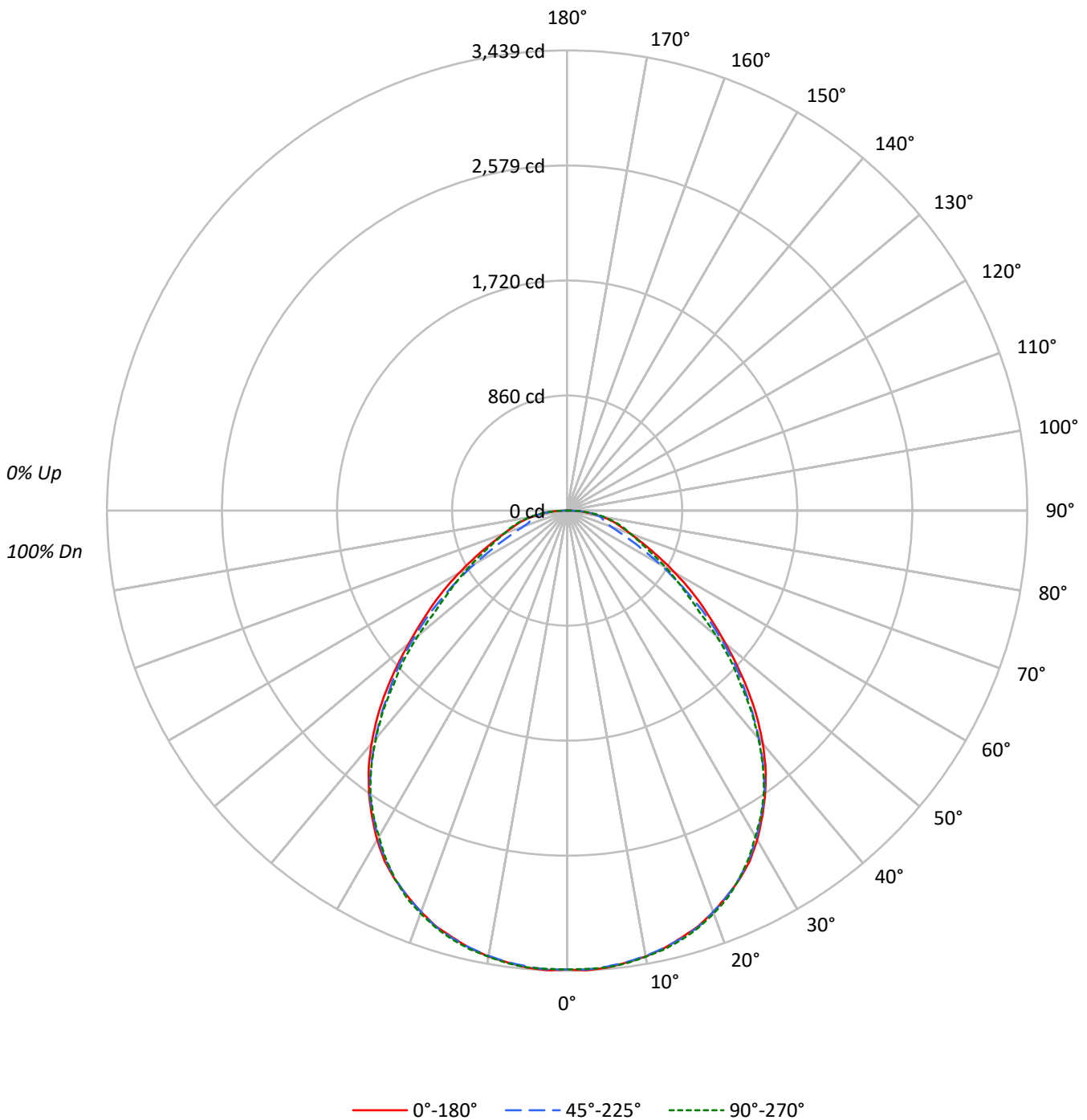
Input Watts (W): 62.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4614	4614	4614
5°	4630	4620	4628
10°	4623	4617	4625
15°	4601	4610	4622
20°	4570	4570	4588
25°	4518	4509	4513
30°	4413	4390	4369
35°	4239	4227	4211
40°	3993	3920	3903
45°	3653	3553	3487
50°	3229	3165	3042
55°	2872	2677	2573
60°	2501	2141	2296
65°	2160	1661	2031
70°	1970	1358	1965
75°	1986	1464	2088
80°	2068	1907	2201
85°	2155	2268	2438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.3	4.1
10°-20°	933.0	11.9
20°-30°	1396.5	17.8
30°-40°	1595.8	20.3
40°-50°	1442.7	18.4
50°-60°	1038.0	13.2
60°-70°	601.7	7.7
70°-80°	357.0	4.5
80°-90°	158.1	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°	2654.8	33.8
0°-40°	4250.5	54.2
0°-60°	6731.2	85.8
0°-90°	7848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3429	3429	3429	3429	3429	
5°	3428	3423	3421	3416	3427	326
15°	3303	3309	3309	3306	3318	933
25°	3044	3040	3038	3031	3040	1399
35°	2581	2569	2574	2542	2564	1609
45°	1920	1887	1867	1850	1833	1475
55°	1224	1201	1141	1112	1097	1095
65°	678	602	522	583	638	685
75°	382	320	282	348	402	404
85°	140	151	147	169	158	150
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3429.3	3429.3	3429.3	3429.3	3429.3
2.5°	3439.1	3426.9	3433.0	3429.3	3428.1
5°	3428.1	3423.2	3420.7	3415.8	3426.9
7.5°	3406.0	3402.4	3403.6	3404.8	3412.2
10°	3384.0	3377.9	3379.1	3381.6	3385.2
12.5°	3349.7	3346.0	3347.3	3349.7	3358.3
15°	3303.2	3309.3	3309.3	3305.6	3317.9
17.5°	3256.7	3255.5	3261.6	3250.6	3267.7
20°	3191.8	3193.0	3191.8	3193.0	3204.0
22.5°	3118.3	3124.4	3120.8	3120.8	3133.0
25°	3043.6	3040.0	3037.5	3031.4	3040.0
27.5°	2954.3	2946.9	2940.8	2928.6	2934.7
30°	2840.4	2841.6	2825.7	2814.7	2812.2
32.5°	2713.1	2713.1	2698.4	2689.8	2697.2
35°	2580.9	2568.6	2573.5	2541.7	2563.7
37.5°	2437.6	2418.0	2407.0	2396.0	2403.3
40°	2273.6	2247.8	2231.9	2209.9	2222.1
42.5°	2100.9	2069.1	2049.5	2033.6	2038.5
45°	1919.7	1886.7	1867.1	1849.9	1832.8
47.5°	1728.7	1707.9	1698.1	1676.1	1656.5
50°	1542.6	1535.3	1512.0	1493.7	1453.3
52.5°	1372.5	1366.3	1329.6	1299.0	1247.6
55°	1224.3	1201.1	1141.1	1111.7	1097.0
57.5°	1073.7	1035.8	963.5	959.9	969.7
60°	929.3	882.7	795.8	815.4	853.3
62.5°	798.3	728.5	645.2	691.7	737.0
65°	678.3	602.4	521.6	582.8	637.9
67.5°	579.1	503.2	419.9	502.0	565.6
70°	500.7	423.6	345.3	439.5	499.5
72.5°	435.9	366.1	301.2	390.6	453.0
75°	382.0	319.5	281.6	347.7	401.6
77.5°	328.1	277.9	269.3	309.8	342.8
80°	266.9	243.6	246.1	271.8	284.0
82.5°	199.6	200.8	206.9	227.7	222.8
85°	139.6	150.6	146.9	169.0	157.9
87.5°	77.1	84.5	79.6	96.7	86.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)