

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: P293833

Luminaire Tested: **24GR-LD5-85-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293833
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-L93050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7623.0 lumens
Efficiency: N/A
Efficacy: 119.1 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

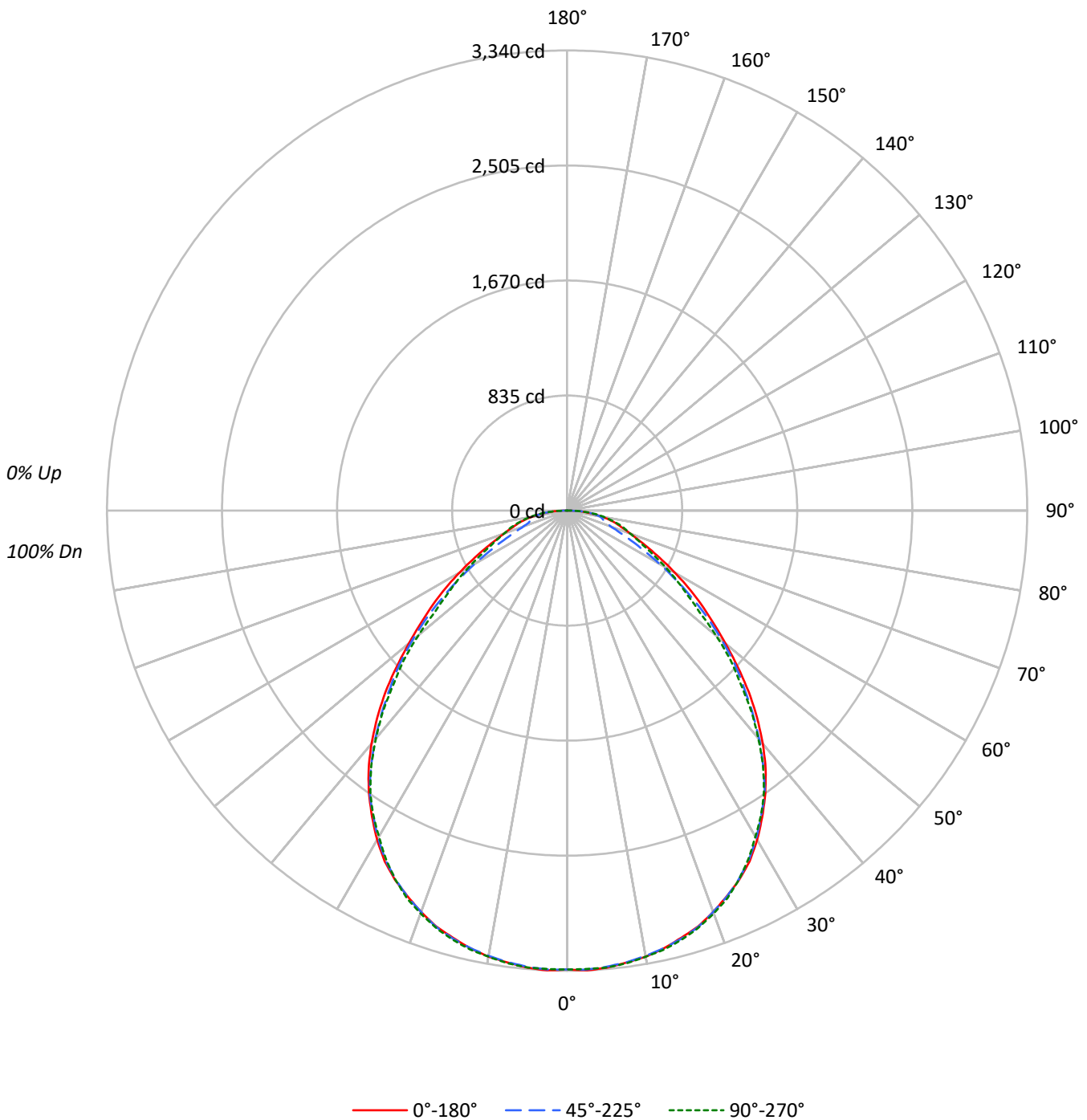
Input Watts (W): 64.025478
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4482	4482	4482
5°	4497	4488	4496
10°	4491	4484	4492
15°	4469	4478	4489
20°	4439	4439	4456
25°	4389	4380	4384
30°	4286	4264	4244
35°	4118	4106	4090
40°	3879	3808	3791
45°	3548	3451	3388
50°	3136	3074	2955
55°	2790	2600	2499
60°	2429	2080	2231
65°	2097	1613	1973
70°	1913	1319	1909
75°	1929	1422	2028
80°	2008	1852	2138
85°	2093	2203	2368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	4.1
10°-20°	906.2	11.9
20°-30°	1356.5	17.8
30°-40°	1550.0	20.3
40°-50°	1401.4	18.4
50°-60°	1008.2	13.2
60°-70°	584.5	7.7
70°-80°	346.7	4.5
80°-90°	153.6	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°	2578.7	33.8
0°-40°	4128.7	54.2
0°-60°	6538.2	85.8
0°-90°	7623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3331	3331	3331	3331	3331	
5°	3330	3325	3323	3318	3329	316
15°	3208	3214	3214	3211	3223	906
25°	2956	2953	2950	2944	2953	1359
35°	2507	2495	2500	2469	2490	1563
45°	1865	1833	1814	1797	1780	1433
55°	1189	1167	1108	1080	1066	1064
65°	659	585	507	566	620	665
75°	371	310	274	338	390	392
85°	136	146	143	164	153	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3331.0	3331.0	3331.0	3331.0	3331.0
2.5°	3340.5	3328.6	3334.6	3331.0	3329.8
5°	3329.8	3325.0	3322.7	3317.9	3328.6
7.5°	3308.4	3304.8	3306.0	3307.2	3314.3
10°	3287.0	3281.0	3282.2	3284.6	3288.2
12.5°	3253.7	3250.1	3251.3	3253.7	3262.0
15°	3208.5	3214.4	3214.4	3210.9	3222.8
17.5°	3163.3	3162.1	3168.1	3157.4	3174.0
20°	3100.3	3101.5	3100.3	3101.5	3112.2
22.5°	3028.9	3034.9	3031.3	3031.3	3043.2
25°	2956.4	2952.8	2950.4	2944.5	2952.8
27.5°	2869.6	2862.4	2856.5	2844.6	2850.5
30°	2759.0	2760.2	2744.7	2734.0	2731.6
32.5°	2635.3	2635.3	2621.0	2612.7	2619.8
35°	2506.9	2495.0	2499.7	2468.8	2490.2
37.5°	2367.7	2348.7	2338.0	2327.3	2334.4
40°	2208.4	2183.4	2167.9	2146.5	2158.4
42.5°	2040.7	2009.8	1990.7	1975.3	1980.0
45°	1864.7	1832.6	1813.6	1796.9	1780.3
47.5°	1679.2	1659.0	1649.4	1628.0	1609.0
50°	1498.4	1491.3	1468.7	1450.8	1411.6
52.5°	1333.1	1327.2	1291.5	1261.8	1211.8
55°	1189.2	1166.6	1108.3	1079.8	1065.5
57.5°	1042.9	1006.1	935.9	932.3	941.9
60°	902.6	857.4	773.0	792.0	828.9
62.5°	775.4	707.6	626.7	671.9	715.9
65°	658.8	585.1	506.6	566.1	619.6
67.5°	562.5	488.8	407.9	487.6	549.4
70°	486.4	411.5	335.4	426.9	485.2
72.5°	423.4	355.6	292.5	379.4	440.0
75°	371.0	310.4	273.5	337.7	390.1
77.5°	318.7	270.0	261.6	300.9	333.0
80°	259.2	236.7	239.0	264.0	275.9
82.5°	193.8	195.0	201.0	221.2	216.4
85°	135.6	146.3	142.7	164.1	153.4
87.5°	74.9	82.1	77.3	93.9	84.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)