

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: P219152

Luminaire Tested: **24GR-LD5-85-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A125-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6918.8 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

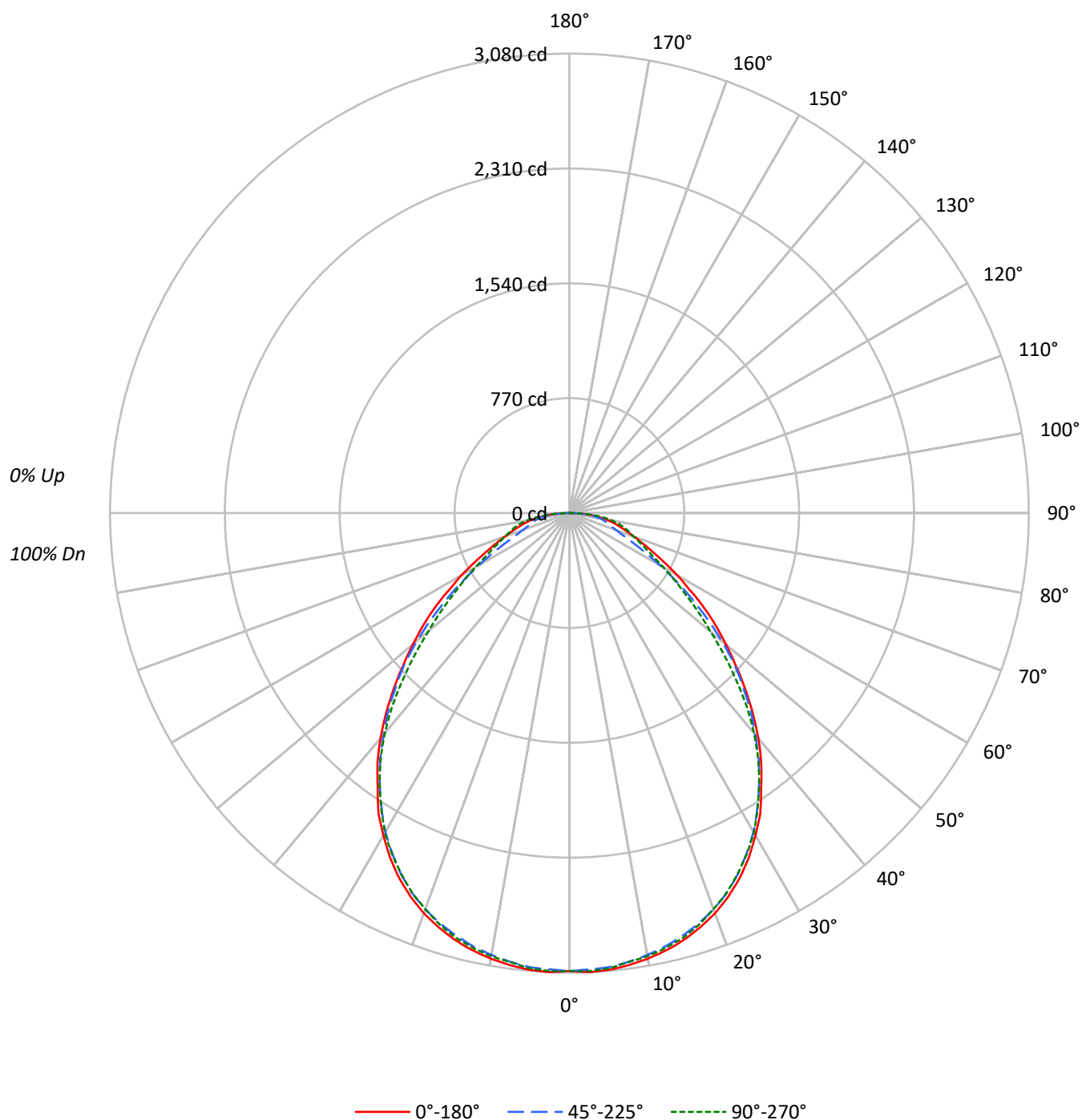
Input Watts (W): 70.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	99	96	99	96	93	95	93	90	91	89	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63		
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	4702	4702	4702
5°	4725	4698	4710
10°	4716	4678	4691
15°	4698	4651	4671
20°	4653	4606	4605
25°	4563	4514	4510
30°	4412	4367	4376
35°	4191	4143	4149
40°	3941	3872	3849
45°	3612	3563	3422
50°	3265	3176	2937
55°	2931	2669	2532
60°	2567	2148	2226
65°	2239	1689	2049
70°	2049	1474	2049
75°	2049	1569	2258
80°	2224	1848	2574
85°	2443	2086	2761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.7	4.2
10°-20°	829.6	12.0
20°-30°	1230.1	17.8
30°-40°	1387.7	20.1
40°-50°	1256.9	18.2
50°-60°	906.8	13.1
60°-70°	541.4	7.8
70°-80°	334.6	4.8
80°-90°	141.0	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°	2350.4	34.0
0°-40°	3738.2	54.0
0°-60°	5901.8	85.3
0°-90°	6918.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6918.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3070	3070	3070	3070	3070	
5°	3073	3069	3056	3053	3063	292
15°	2963	2945	2933	2934	2946	835
25°	2700	2685	2671	2662	2669	1240
35°	2241	2238	2216	2217	2219	1402
45°	1668	1657	1645	1604	1580	1285
55°	1098	1064	999	950	948	980
65°	618	544	466	529	566	621
75°	346	300	265	330	382	370
85°	139	122	119	155	157	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3069.8	3069.8	3069.8	3069.8	3069.8
2.5°	3080.5	3072.0	3061.2	3067.7	3073.0
5°	3073.0	3068.8	3055.9	3052.7	3063.4
7.5°	3057.0	3046.3	3034.5	3039.9	3035.6
10°	3032.4	3022.8	3007.8	3008.9	3016.4
12.5°	3002.4	2990.7	2974.7	2979.0	2985.4
15°	2962.9	2944.8	2933.0	2934.0	2945.8
17.5°	2912.6	2898.8	2883.9	2887.1	2892.4
20°	2855.0	2847.4	2826.1	2819.7	2825.1
22.5°	2782.3	2768.4	2756.6	2753.4	2754.5
25°	2699.9	2685.0	2671.1	2661.5	2668.9
27.5°	2603.7	2591.0	2572.8	2569.6	2575.9
30°	2494.8	2485.1	2469.1	2464.8	2474.4
32.5°	2383.6	2367.6	2345.1	2345.1	2347.2
35°	2241.4	2238.2	2215.8	2216.9	2219.0
37.5°	2113.1	2098.2	2085.3	2072.5	2078.9
40°	1971.0	1953.9	1936.8	1928.2	1925.0
42.5°	1818.2	1805.3	1797.8	1766.9	1759.4
45°	1667.5	1656.7	1645.0	1604.4	1579.8
47.5°	1513.6	1511.4	1501.7	1430.2	1405.6
50°	1370.3	1367.1	1332.9	1257.0	1232.4
52.5°	1234.5	1213.2	1168.3	1093.5	1089.2
55°	1097.7	1063.5	999.4	950.2	948.1
57.5°	953.4	912.8	847.6	820.9	834.8
60°	838.0	776.0	701.2	704.4	726.8
62.5°	718.3	648.8	575.1	607.1	633.9
65°	617.8	544.1	466.0	529.1	565.5
67.5°	530.1	461.7	387.0	471.3	506.7
70°	457.5	401.9	329.2	418.0	457.5
72.5°	399.8	348.4	291.8	375.2	421.2
75°	346.3	300.4	265.1	330.3	381.6
77.5°	300.4	255.4	239.4	291.8	342.0
80°	252.2	211.6	209.5	254.4	291.8
82.5°	196.6	168.9	168.9	212.7	235.2
85°	139.0	121.9	118.7	155.0	157.1
87.5°	71.6	68.4	62.0	81.3	81.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)