

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: P219181

Luminaire Tested: **24GR-LD5-72-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219181
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-LD5-72-A125-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6358.7 lumens
Efficiency: N/A
Efficacy: 113.4 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

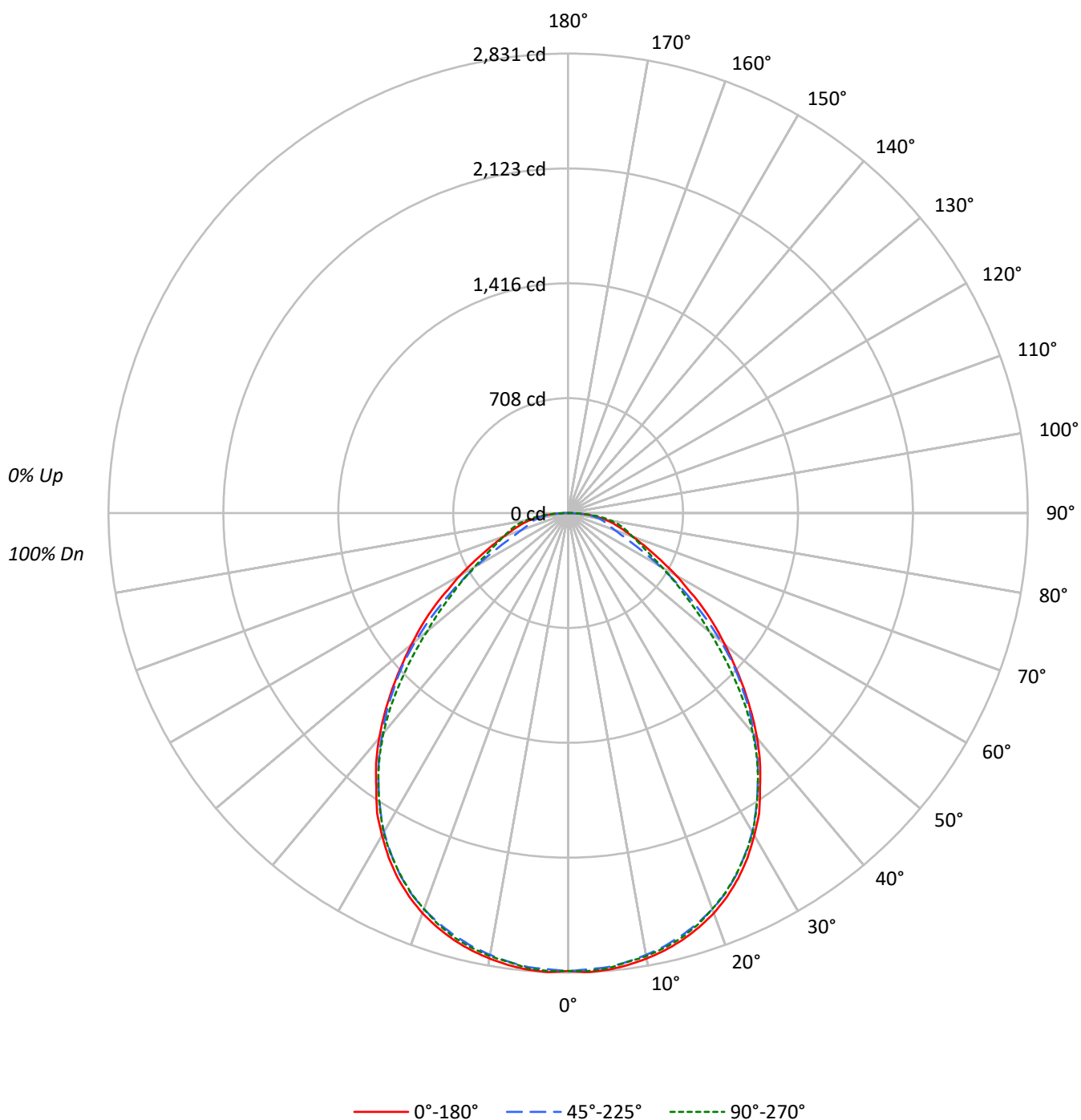
Input Watts (W): 56.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	4321	4321	4321
5°	4342	4318	4329
10°	4334	4299	4311
15°	4318	4274	4293
20°	4277	4233	4232
25°	4193	4149	4145
30°	4055	4013	4022
35°	3852	3808	3813
40°	3622	3559	3537
45°	3319	3275	3145
50°	3001	2919	2699
55°	2694	2453	2327
60°	2359	1974	2046
65°	2058	1552	1883
70°	1883	1355	1883
75°	1884	1442	2075
80°	2045	1699	2365
85°	2244	1916	2538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	4.2
10°-20°	762.4	12.0
20°-30°	1130.5	17.8
30°-40°	1275.4	20.1
40°-50°	1155.1	18.2
50°-60°	833.4	13.1
60°-70°	497.6	7.8
70°-80°	307.5	4.8
80°-90°	129.6	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°	2160.2	34.0
0°-40°	3435.5	54.0
0°-60°	5424.0	85.3
0°-90°	6358.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6358.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2821	2821	2821	2821	2821	
5°	2824	2820	2808	2806	2815	268
15°	2723	2706	2696	2696	2707	768
25°	2481	2468	2455	2446	2453	1140
35°	2060	2057	2036	2037	2039	1289
45°	1532	1523	1512	1474	1452	1181
55°	1009	977	918	873	871	901
65°	568	500	428	486	520	571
75°	318	276	244	304	351	340
85°	128	112	109	142	144	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2821.3	2821.3	2821.3	2821.3	2821.3
2.5°	2831.1	2823.2	2813.4	2819.3	2824.2
5°	2824.2	2820.3	2808.5	2805.6	2815.4
7.5°	2809.5	2799.6	2788.9	2793.8	2789.8
10°	2786.9	2778.1	2764.3	2765.3	2772.1
12.5°	2759.4	2748.6	2733.9	2737.8	2743.7
15°	2723.0	2706.3	2695.6	2696.5	2707.4
17.5°	2676.9	2664.1	2650.3	2653.3	2658.2
20°	2623.9	2617.0	2597.3	2591.4	2596.3
22.5°	2557.0	2544.2	2533.5	2530.6	2531.5
25°	2481.4	2467.6	2454.9	2446.0	2452.9
27.5°	2393.0	2381.2	2364.5	2361.6	2367.4
30°	2292.8	2283.9	2269.2	2265.2	2274.1
32.5°	2190.6	2175.9	2155.2	2155.2	2157.2
35°	2060.0	2057.0	2036.4	2037.3	2039.3
37.5°	1942.1	1928.4	1916.5	1904.7	1910.7
40°	1811.4	1795.7	1780.0	1772.1	1769.2
42.5°	1671.0	1659.2	1652.3	1623.9	1617.0
45°	1532.4	1522.6	1511.8	1474.5	1451.9
47.5°	1391.0	1389.1	1380.2	1314.3	1291.8
50°	1259.4	1256.4	1225.0	1155.2	1132.6
52.5°	1134.6	1115.0	1073.7	1004.9	1001.0
55°	1008.9	977.4	918.5	873.3	871.4
57.5°	876.3	838.9	779.0	754.5	767.2
60°	770.1	713.2	644.4	647.3	668.0
62.5°	660.1	596.2	528.5	558.0	582.6
65°	567.8	500.0	428.3	486.2	519.7
67.5°	487.3	424.4	355.6	433.2	465.6
70°	420.5	369.4	302.5	384.1	420.5
72.5°	367.4	320.3	268.1	344.8	387.0
75°	318.3	276.1	243.6	303.6	350.7
77.5°	276.1	234.8	220.1	268.1	314.3
80°	231.9	194.5	192.6	233.8	268.1
82.5°	180.8	155.2	155.2	195.5	216.1
85°	127.7	112.0	109.0	142.4	144.4
87.5°	65.8	62.9	57.0	74.6	74.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)