

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: P475796

Luminaire Tested: **24GR-LD5-56-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475796
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-A125-UNV-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5825.6 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

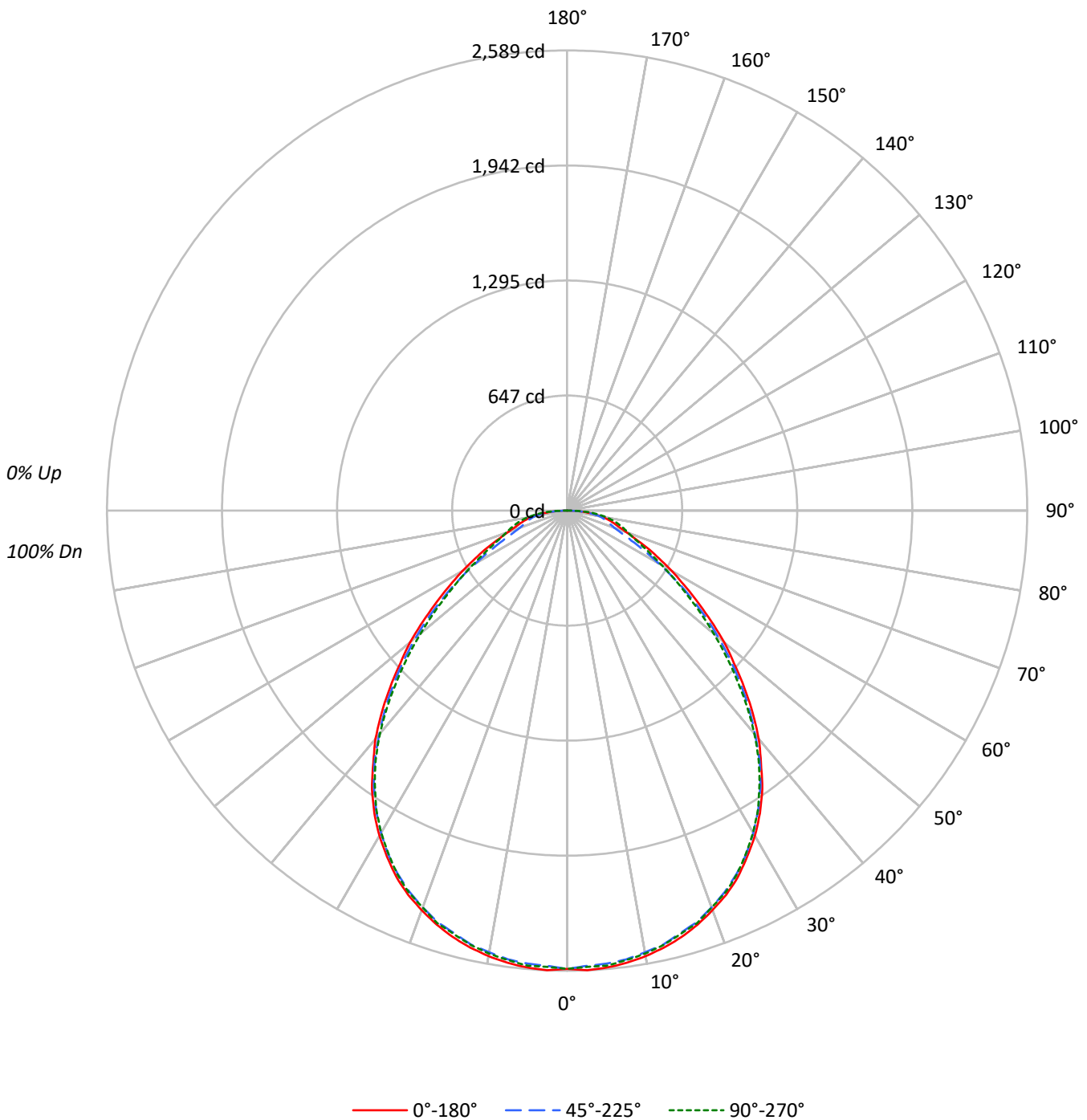
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	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	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3469	3469	3469
5°	3486	3455	3470
10°	3478	3448	3457
15°	3461	3427	3435
20°	3425	3401	3403
25°	3376	3349	3354
30°	3283	3253	3251
35°	3145	3113	3098
40°	2947	2889	2877
45°	2682	2629	2578
50°	2415	2330	2254
55°	2095	1982	1922
60°	1830	1597	1653
65°	1584	1270	1470
70°	1397	1113	1435
75°	1402	1210	1570
80°	1537	1438	1777
85°	1619	1565	2038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.7	4.2
10°-20°	696.3	12.0
20°-30°	1038.2	17.8
30°-40°	1180.2	20.3
40°-50°	1063.6	18.3
50°-60°	766.1	13.2
60°-70°	445.6	7.6
70°-80°	272.7	4.7
80°-90°	119.3	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°	1978.1	34.0
0°-40°	3158.3	54.2
0°-60°	4988.0	85.6
0°-90°	5825.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5825.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2578	2578	2578	2578	2578	
5°	2581	2563	2558	2564	2569	245
15°	2484	2471	2460	2464	2466	700
25°	2274	2260	2256	2252	2259	1045
35°	1914	1901	1896	1885	1886	1191
45°	1410	1394	1381	1360	1355	1087
55°	893	872	845	836	820	805
65°	497	447	399	430	462	497
75°	270	244	233	265	302	287
85°	105	104	101	138	132	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2578.4	2578.4	2578.4	2578.4	2578.4
2.5°	2588.8	2575.0	2563.5	2564.0	2569.8
5°	2580.7	2562.9	2558.3	2563.5	2569.2
7.5°	2566.3	2549.6	2546.7	2543.9	2550.8
10°	2545.6	2534.1	2523.7	2526.6	2530.6
12.5°	2517.9	2508.1	2500.6	2494.9	2503.5
15°	2484.5	2470.7	2460.3	2464.3	2466.1
17.5°	2442.4	2429.2	2426.3	2424.0	2432.6
20°	2392.3	2384.2	2375.6	2377.9	2376.7
22.5°	2339.3	2327.2	2320.2	2316.8	2326.0
25°	2274.1	2260.3	2255.7	2252.2	2259.2
27.5°	2194.6	2187.1	2180.8	2176.2	2176.7
30°	2112.8	2105.3	2093.8	2090.3	2092.6
32.5°	2018.8	2010.2	1999.8	1989.4	1996.9
35°	1914.5	1901.3	1895.5	1884.6	1886.3
37.5°	1791.2	1785.4	1780.2	1765.8	1770.4
40°	1677.7	1662.1	1644.8	1636.2	1637.9
42.5°	1546.3	1530.1	1516.3	1504.2	1498.4
45°	1409.7	1393.5	1381.4	1360.1	1354.9
47.5°	1273.7	1258.7	1245.4	1228.7	1213.7
50°	1153.8	1126.1	1112.9	1095.6	1076.6
52.5°	1018.9	1002.8	976.9	962.4	945.2
55°	893.3	872.0	844.9	836.2	819.5
57.5°	780.3	757.3	717.5	714.1	713.5
60°	680.1	648.9	593.6	597.6	614.4
62.5°	582.7	538.3	488.1	506.0	530.8
65°	497.4	447.2	398.8	429.9	461.6
67.5°	415.5	370.6	329.7	371.1	404.6
70°	355.0	317.5	283.0	327.3	364.8
72.5°	304.3	275.5	253.0	293.3	333.7
75°	269.7	244.4	232.8	265.1	302.0
77.5°	237.4	215.0	211.5	240.3	267.4
80°	198.3	182.7	185.6	215.0	229.4
82.5°	151.0	146.4	147.0	183.8	186.7
85°	104.9	103.7	101.4	137.7	132.0
87.5°	53.0	54.2	53.6	78.4	70.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)