

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: P475792

Luminaire Tested: **24GR-LD5-34-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475792
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-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: 3531.8 lumens
Efficiency: N/A
Efficacy: 147.2 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

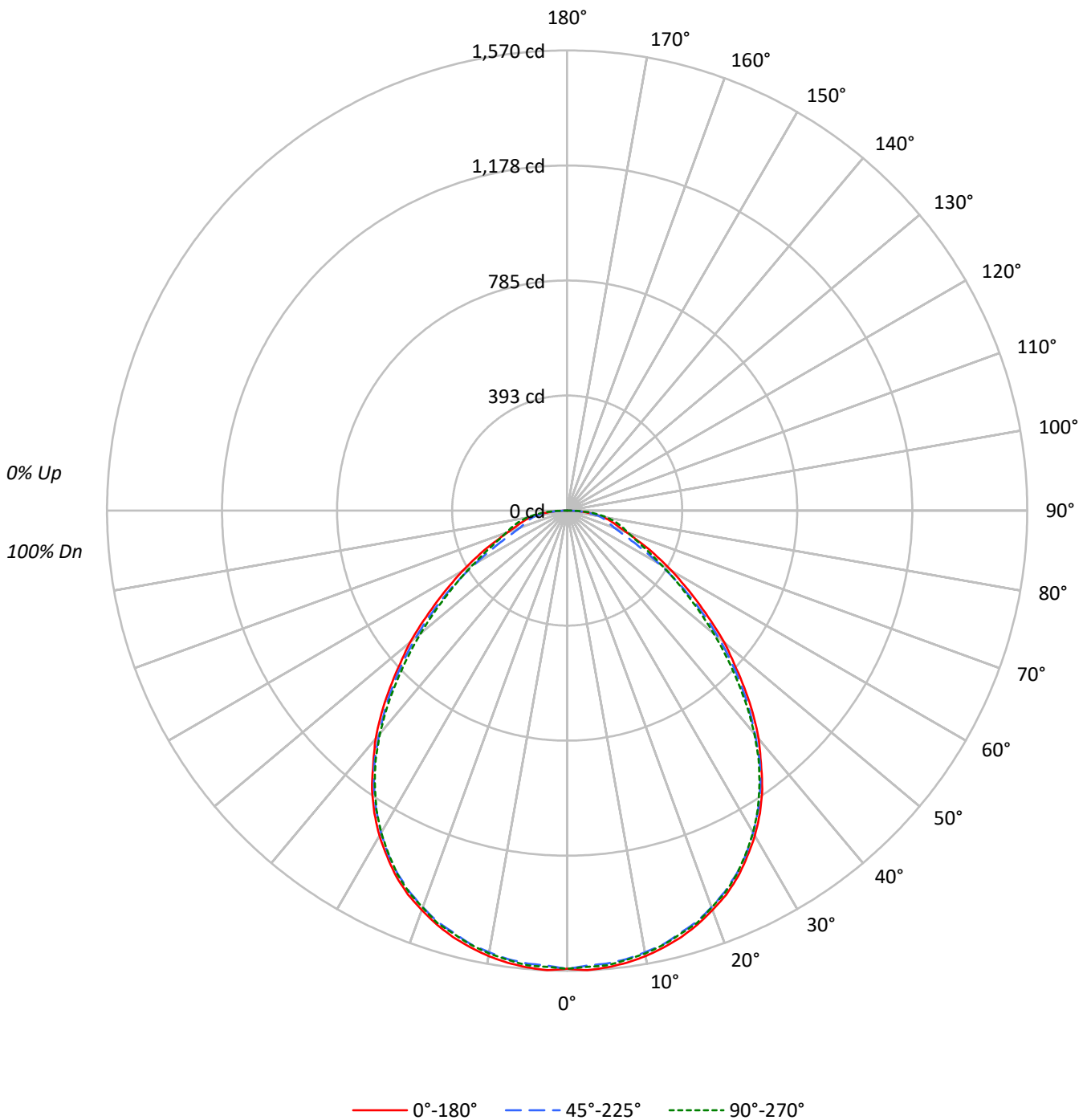
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					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°	2103	2103	2103
5°	2113	2095	2104
10°	2109	2090	2096
15°	2098	2078	2083
20°	2077	2062	2063
25°	2047	2030	2033
30°	1990	1972	1971
35°	1906	1888	1878
40°	1786	1751	1744
45°	1626	1594	1563
50°	1464	1412	1366
55°	1270	1202	1165
60°	1109	968	1002
65°	960	770	891
70°	847	675	870
75°	850	734	952
80°	931	872	1078
85°	982	949	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	4.2
10°-20°	422.1	12.0
20°-30°	629.4	17.8
30°-40°	715.5	20.3
40°-50°	644.8	18.3
50°-60°	464.4	13.2
60°-70°	270.2	7.6
70°-80°	165.3	4.7
80°-90°	72.3	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°	1199.2	34.0
0°-40°	1914.7	54.2
0°-60°	3024.0	85.6
0°-90°	3531.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1565	1554	1551	1554	1558	149
15°	1506	1498	1492	1494	1495	425
25°	1379	1370	1368	1365	1370	633
35°	1161	1153	1149	1142	1144	722
45°	855	845	838	825	821	659
55°	542	529	512	507	497	488
65°	302	271	242	261	280	302
75°	164	148	141	161	183	174
85°	64	63	62	84	80	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.2	1563.2	1563.2	1563.2	1563.2
2.5°	1569.5	1561.1	1554.1	1554.4	1557.9
5°	1564.6	1553.7	1551.0	1554.1	1557.6
7.5°	1555.8	1545.7	1544.0	1542.2	1546.4
10°	1543.3	1536.3	1530.0	1531.7	1534.2
12.5°	1526.5	1520.6	1516.0	1512.5	1517.8
15°	1506.2	1497.8	1491.6	1494.0	1495.1
17.5°	1480.7	1472.7	1470.9	1469.5	1474.8
20°	1450.3	1445.4	1440.2	1441.6	1440.9
22.5°	1418.2	1410.8	1406.7	1404.6	1410.1
25°	1378.7	1370.3	1367.5	1365.4	1369.6
27.5°	1330.5	1325.9	1322.1	1319.3	1319.7
30°	1280.9	1276.3	1269.3	1267.2	1268.6
32.5°	1223.9	1218.7	1212.4	1206.1	1210.6
35°	1160.7	1152.6	1149.2	1142.5	1143.6
37.5°	1085.9	1082.4	1079.3	1070.5	1073.3
40°	1017.1	1007.6	997.2	991.9	993.0
42.5°	937.4	927.6	919.3	911.9	908.4
45°	854.6	844.8	837.5	824.6	821.4
47.5°	772.2	763.1	755.0	744.9	735.8
50°	699.5	682.7	674.7	664.2	652.7
52.5°	617.7	607.9	592.2	583.5	573.0
55°	541.6	528.6	512.2	507.0	496.8
57.5°	473.1	459.1	435.0	432.9	432.5
60°	412.3	393.4	359.9	362.3	372.5
62.5°	353.2	326.3	295.9	306.8	321.8
65°	301.5	271.1	241.8	260.6	279.9
67.5°	251.9	224.7	199.9	225.0	245.3
70°	215.2	192.5	171.6	198.5	221.2
72.5°	184.5	167.0	153.4	177.8	202.3
75°	163.5	148.1	141.2	160.7	183.1
77.5°	143.9	130.3	128.2	145.7	162.1
80°	120.2	110.8	112.5	130.3	139.1
82.5°	91.5	88.7	89.1	111.5	113.2
85°	63.6	62.9	61.5	83.5	80.0
87.5°	32.1	32.8	32.5	47.5	42.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)