

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: P475807

Luminaire Tested: **24GR-LD5-34-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475807
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-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3535.3 lumens
Efficiency: N/A
Efficacy: 147.3 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

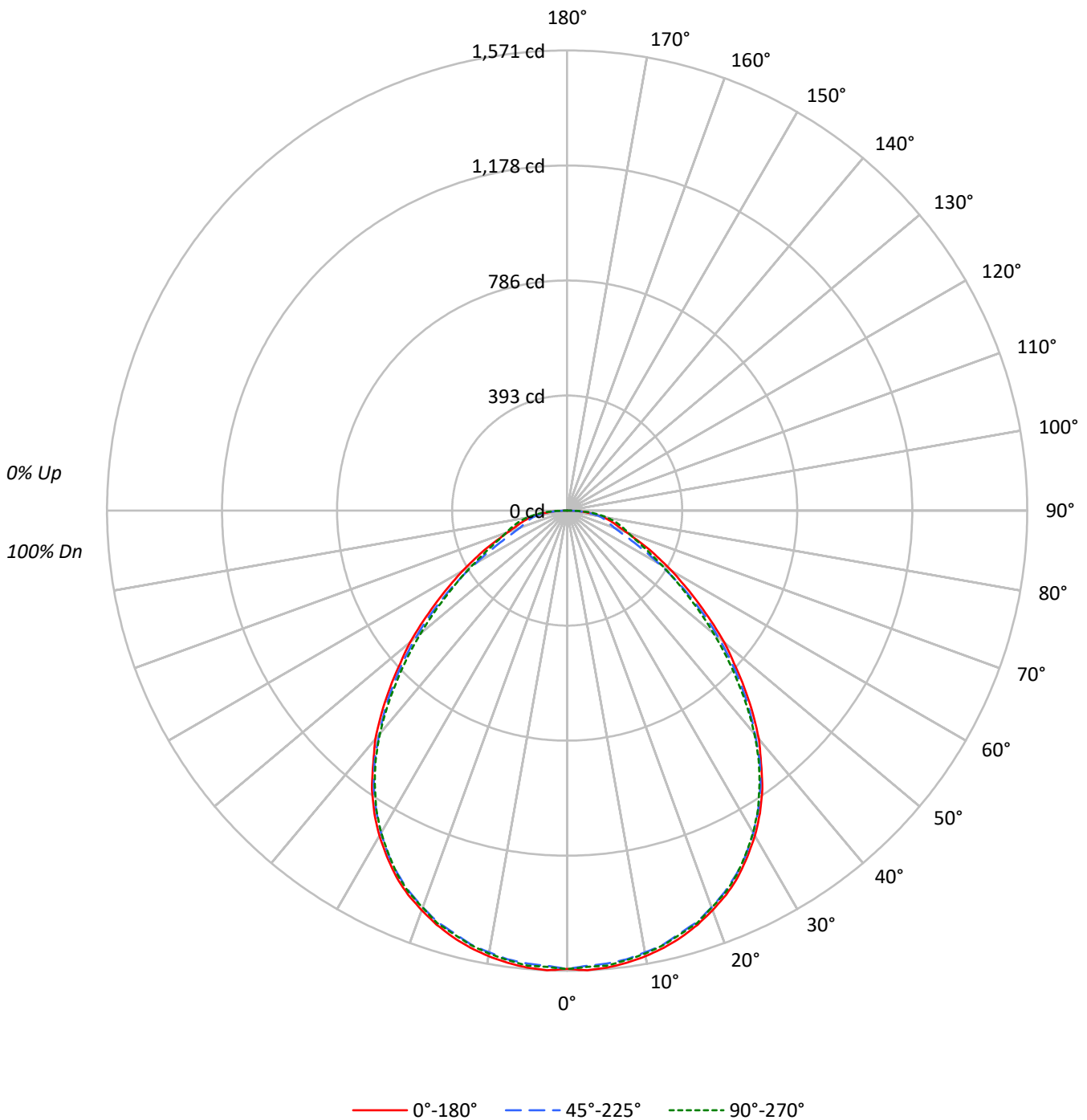
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2105	2105	2105
5°	2115	2097	2106
10°	2111	2092	2098
15°	2100	2080	2085
20°	2079	2064	2065
25°	2049	2032	2035
30°	1992	1974	1973
35°	1908	1889	1880
40°	1788	1753	1746
45°	1628	1595	1564
50°	1466	1414	1367
55°	1272	1203	1167
60°	1111	969	1003
65°	961	770	892
70°	847	675	871
75°	851	735	953
80°	932	872	1079
85°	983	951	1237



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	4.2
10°-20°	422.6	12.0
20°-30°	630.0	17.8
30°-40°	716.2	20.3
40°-50°	645.4	18.3
50°-60°	464.9	13.2
60°-70°	270.4	7.6
70°-80°	165.5	4.7
80°-90°	72.4	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°	1200.4	34.0
0°-40°	1916.6	54.2
0°-60°	3026.9	85.6
0°-90°	3535.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3535.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1566	1555	1552	1556	1559	149
15°	1508	1499	1493	1496	1496	425
25°	1380	1372	1369	1367	1371	634
35°	1162	1154	1150	1144	1145	723
45°	856	846	838	825	822	660
55°	542	529	513	508	497	489
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°	1564.7	1564.7	1564.7	1564.7	1564.7
2.5°	1571.0	1562.6	1555.6	1556.0	1559.5
5°	1566.1	1555.3	1552.5	1555.6	1559.1
7.5°	1557.4	1547.2	1545.5	1543.7	1547.9
10°	1544.8	1537.8	1531.5	1533.2	1535.7
12.5°	1528.0	1522.0	1517.5	1514.0	1519.3
15°	1507.7	1499.3	1493.0	1495.5	1496.5
17.5°	1482.2	1474.1	1472.4	1471.0	1476.2
20°	1451.8	1446.9	1441.6	1443.0	1442.3
22.5°	1419.6	1412.2	1408.0	1405.9	1411.5
25°	1380.1	1371.7	1368.9	1366.8	1371.0
27.5°	1331.8	1327.2	1323.4	1320.6	1321.0
30°	1282.1	1277.6	1270.6	1268.5	1269.9
32.5°	1225.1	1219.9	1213.6	1207.3	1211.8
35°	1161.8	1153.8	1150.3	1143.6	1144.7
37.5°	1087.0	1083.5	1080.3	1071.6	1074.4
40°	1018.1	1008.6	998.1	992.9	993.9
42.5°	938.3	928.5	920.2	912.8	909.3
45°	855.5	845.7	838.3	825.4	822.2
47.5°	772.9	763.8	755.8	745.6	736.5
50°	700.2	683.4	675.3	664.8	653.3
52.5°	618.3	608.5	592.8	584.1	573.6
55°	542.1	529.1	512.7	507.5	497.3
57.5°	473.5	459.6	435.4	433.3	433.0
60°	412.7	393.8	360.2	362.7	372.8
62.5°	353.6	326.7	296.2	307.1	322.1
65°	301.8	271.4	242.0	260.9	280.1
67.5°	252.2	224.9	200.0	225.2	245.5
70°	215.4	192.7	171.7	198.6	221.4
72.5°	184.7	167.2	153.5	178.0	202.5
75°	163.7	148.3	141.3	160.9	183.3
77.5°	144.1	130.5	128.4	145.8	162.3
80°	120.3	110.9	112.6	130.5	139.2
82.5°	91.6	88.8	89.2	111.6	113.3
85°	63.7	63.0	61.6	83.6	80.1
87.5°	32.2	32.9	32.5	47.6	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)