

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: P475627

Luminaire Tested: **24GR-LD5-34-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475627  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-34-F125-UNV-L850-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3521.0 lumens  
Efficiency: N/A  
Efficacy: 146.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

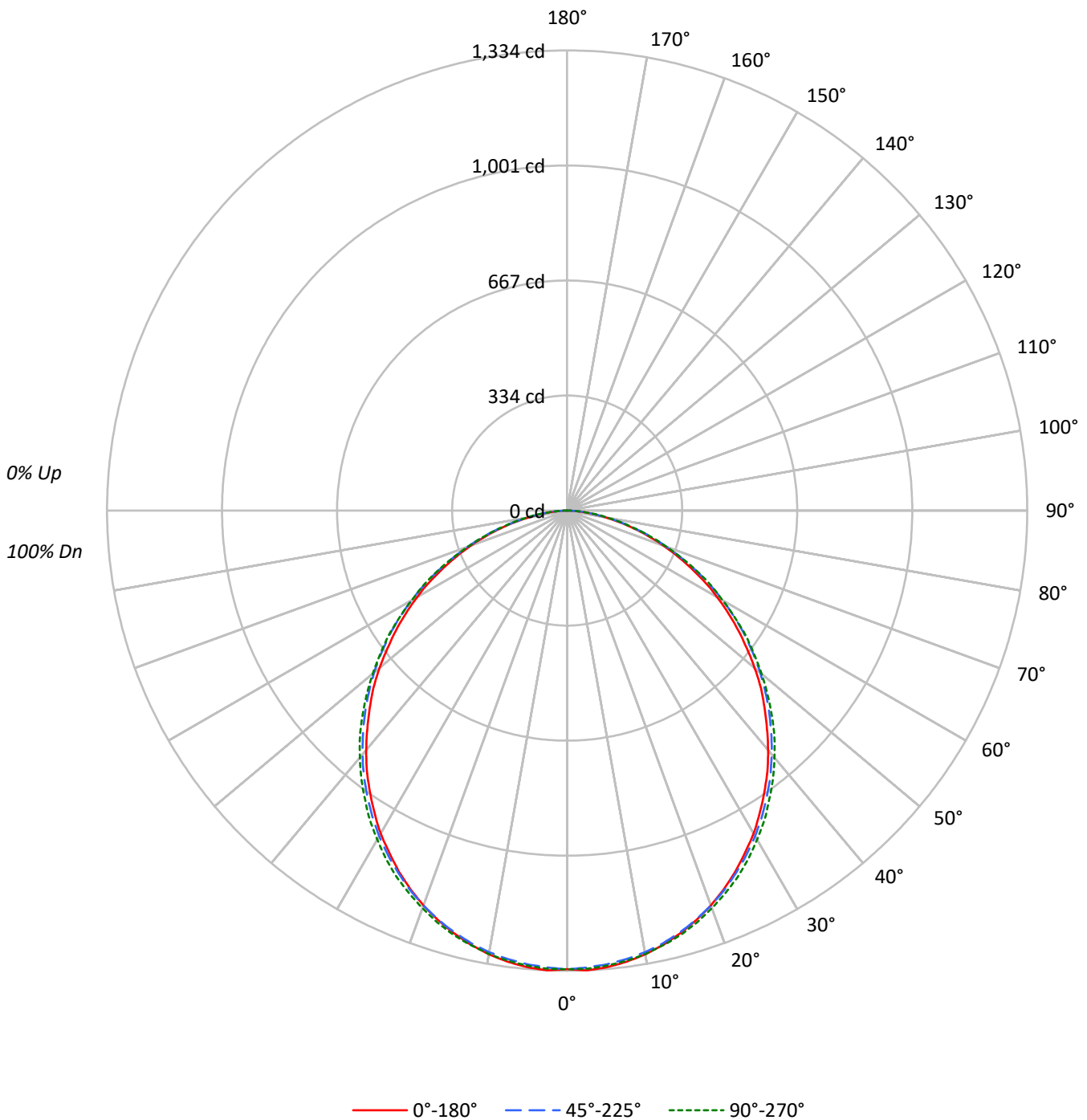
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1789	1789	1789
5°	1795	1783	1788
10°	1784	1776	1783
15°	1767	1763	1774
20°	1744	1744	1756
25°	1714	1720	1738
30°	1680	1693	1711
35°	1637	1659	1679
40°	1592	1621	1642
45°	1539	1577	1597
50°	1486	1529	1540
55°	1422	1472	1483
60°	1354	1400	1401
65°	1265	1314	1321
70°	1172	1205	1201
75°	1041	1078	1081
80°	871	902	936
85°	653	702	727



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.6	3.6
10°-20°	357.4	10.2
20°-30°	534.3	15.2
30°-40°	631.3	17.9
40°-50°	637.3	18.1
50°-60°	556.1	15.8
60°-70°	405.5	11.5
70°-80°	218.7	6.2
80°-90°	54.7	1.6
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°	1017.4	28.9
0°-40°	1648.7	46.8
0°-60°	2842.1	80.7
0°-90°	3521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3521.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1329	1324	1320	1322	1324	126
15°	1268	1266	1265	1268	1273	358
25°	1154	1154	1159	1166	1171	531
35°	997	999	1010	1020	1022	623
45°	809	815	829	839	839	625
55°	606	613	628	630	632	542
65°	397	406	413	413	415	395
75°	200	202	207	208	208	213
85°	42	43	46	48	47	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1329.7	1329.7	1329.7	1329.7	1329.7
2.5°	1334.1	1329.3	1325.5	1326.3	1329.5
5°	1328.7	1323.9	1320.3	1321.5	1324.1
7.5°	1319.1	1314.7	1311.9	1313.1	1316.5
10°	1305.9	1302.4	1299.8	1301.6	1305.1
12.5°	1289.2	1285.6	1284.6	1287.2	1290.4
15°	1268.2	1265.6	1265.4	1268.4	1273.2
17.5°	1244.7	1242.1	1243.5	1247.5	1251.7
20°	1217.9	1215.5	1218.3	1223.7	1226.5
22.5°	1187.4	1185.4	1190.4	1196.0	1199.6
25°	1154.3	1154.5	1158.8	1166.2	1171.0
27.5°	1117.5	1118.9	1125.5	1132.7	1137.5
30°	1081.4	1080.2	1089.6	1097.4	1101.0
32.5°	1039.5	1040.1	1051.1	1059.0	1064.4
35°	996.6	999.4	1010.1	1019.9	1021.9
37.5°	953.3	955.3	968.2	977.8	980.4
40°	906.4	909.9	922.7	931.7	934.9
42.5°	857.5	862.0	875.8	885.2	889.4
45°	809.0	814.7	828.7	839.1	839.3
47.5°	762.1	766.2	779.8	789.0	788.0
50°	709.8	715.9	730.5	736.1	735.5
52.5°	656.3	665.6	679.0	683.4	682.8
55°	606.0	613.4	627.7	630.1	632.3
57.5°	553.9	560.3	575.8	576.8	576.4
60°	503.0	508.8	520.1	522.9	520.7
62.5°	451.7	457.5	467.6	470.4	470.0
65°	397.2	405.8	412.6	413.4	414.8
67.5°	346.5	351.9	358.5	359.7	358.7
70°	297.8	302.4	306.2	307.0	305.2
72.5°	247.5	251.7	257.1	258.1	256.1
75°	200.2	202.2	207.4	208.2	208.0
77.5°	154.3	155.9	159.7	162.7	163.1
80°	112.4	113.0	116.4	118.6	120.8
82.5°	74.4	76.0	78.6	80.8	82.8
85°	42.3	43.3	45.5	47.7	47.1
87.5°	16.4	18.6	18.8	21.0	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)