

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: P475597

Luminaire Tested: **24GR-LD5-34-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475597
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-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3451.9 lumens
Efficiency: N/A
Efficacy: 143.8 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

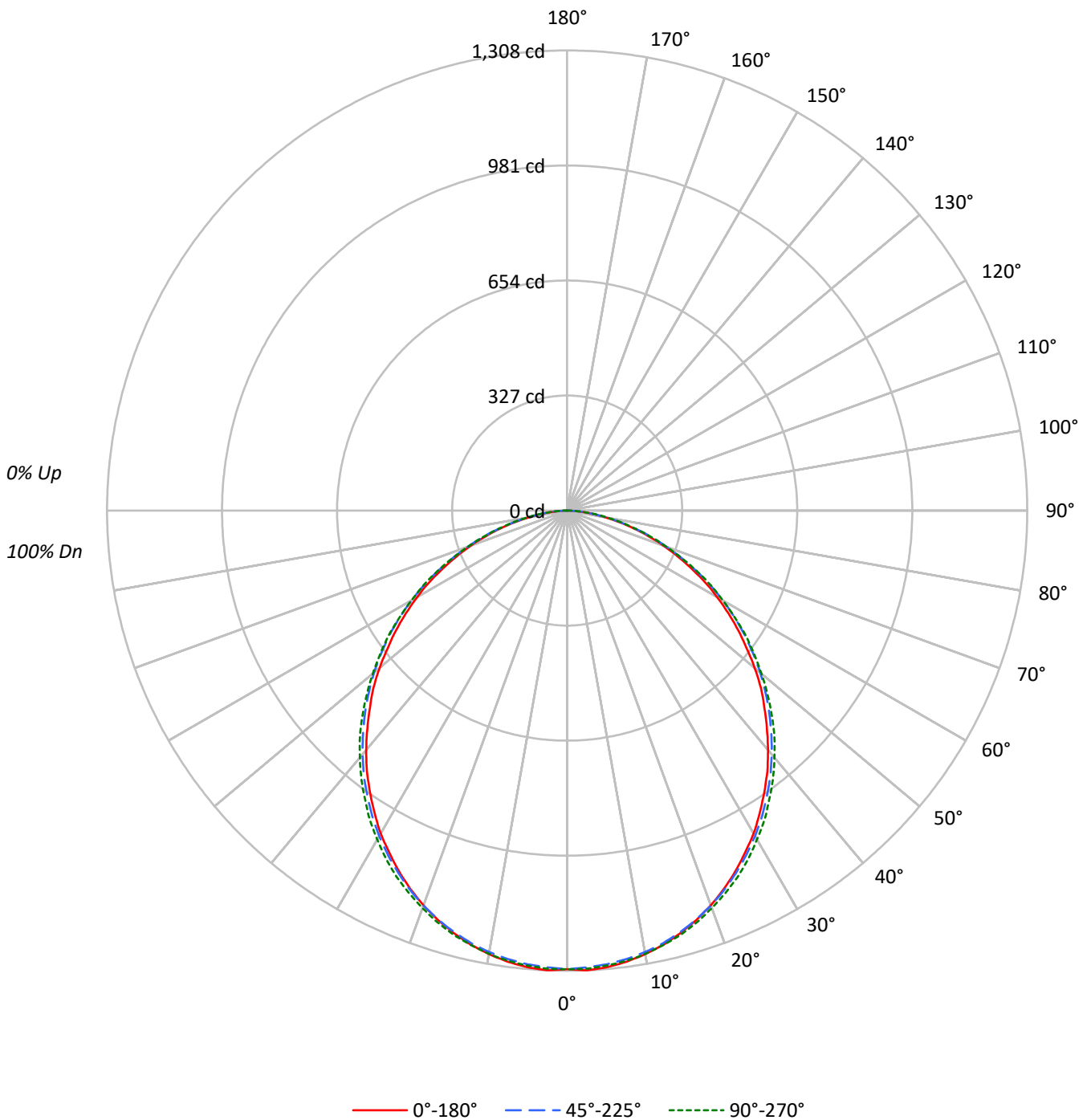
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1754	1754	1754
5°	1759	1748	1753
10°	1749	1741	1748
15°	1732	1728	1739
20°	1710	1710	1722
25°	1680	1687	1704
30°	1647	1660	1677
35°	1605	1627	1646
40°	1561	1589	1610
45°	1509	1546	1566
50°	1456	1499	1509
55°	1394	1444	1454
60°	1327	1372	1374
65°	1240	1288	1294
70°	1149	1181	1177
75°	1020	1057	1060
80°	854	884	917
85°	641	689	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	3.6
10°-20°	350.4	10.2
20°-30°	523.8	15.2
30°-40°	618.9	17.9
40°-50°	624.8	18.1
50°-60°	545.2	15.8
60°-70°	397.5	11.5
70°-80°	214.4	6.2
80°-90°	53.7	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°	997.4	28.9
0°-40°	1616.3	46.8
0°-60°	2786.3	80.7
0°-90°	3451.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3451.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1303	1298	1294	1296	1298	124
15°	1243	1241	1241	1244	1248	351
25°	1132	1132	1136	1143	1148	521
35°	977	980	990	1000	1002	611
45°	793	799	812	823	823	612
55°	594	601	615	618	620	531
65°	389	398	404	405	407	387
75°	196	198	203	204	204	209
85°	42	42	45	47	46	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1303.6	1303.6	1303.6	1303.6	1303.6
2.5°	1307.9	1303.2	1299.5	1300.3	1303.4
5°	1302.6	1297.9	1294.4	1295.6	1298.1
7.5°	1293.3	1288.9	1286.2	1287.4	1290.7
10°	1280.3	1276.8	1274.3	1276.0	1279.6
12.5°	1263.9	1260.4	1259.4	1261.9	1265.1
15°	1243.4	1240.8	1240.6	1243.5	1248.2
17.5°	1220.3	1217.7	1219.1	1223.0	1227.1
20°	1194.0	1191.7	1194.4	1199.7	1202.5
22.5°	1164.1	1162.1	1167.0	1172.5	1176.0
25°	1131.6	1131.8	1136.1	1143.4	1148.1
27.5°	1095.6	1097.0	1103.4	1110.5	1115.2
30°	1060.2	1059.0	1068.2	1075.9	1079.4
32.5°	1019.1	1019.7	1030.5	1038.3	1043.6
35°	977.0	979.8	990.3	999.9	1001.9
37.5°	934.6	936.5	949.2	958.6	961.2
40°	888.6	892.1	904.6	913.4	916.6
42.5°	840.6	845.1	858.6	867.8	872.0
45°	793.1	798.8	812.5	822.6	822.8
47.5°	747.1	751.2	764.5	773.5	772.5
50°	695.8	701.9	716.2	721.7	721.1
52.5°	643.4	652.6	665.7	670.0	669.4
55°	594.1	601.3	615.4	617.8	619.9
57.5°	543.0	549.3	564.5	565.5	565.1
60°	493.1	498.8	509.9	512.7	510.5
62.5°	442.8	448.5	458.5	461.2	460.8
65°	389.4	397.8	404.5	405.3	406.6
67.5°	339.7	345.0	351.4	352.6	351.6
70°	292.0	296.5	300.2	301.0	299.2
72.5°	242.6	246.8	252.0	253.0	251.1
75°	196.3	198.2	203.3	204.1	203.9
77.5°	151.3	152.8	156.5	159.5	159.9
80°	110.2	110.8	114.1	116.2	118.4
82.5°	73.0	74.6	77.1	79.3	81.2
85°	41.5	42.5	44.6	46.8	46.2
87.5°	16.0	18.2	18.4	20.5	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)