

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: P475626

Luminaire Tested: **24GR-LD5-30-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475626
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-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: 3130.3 lumens
Efficiency: N/A
Efficacy: 147.0 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

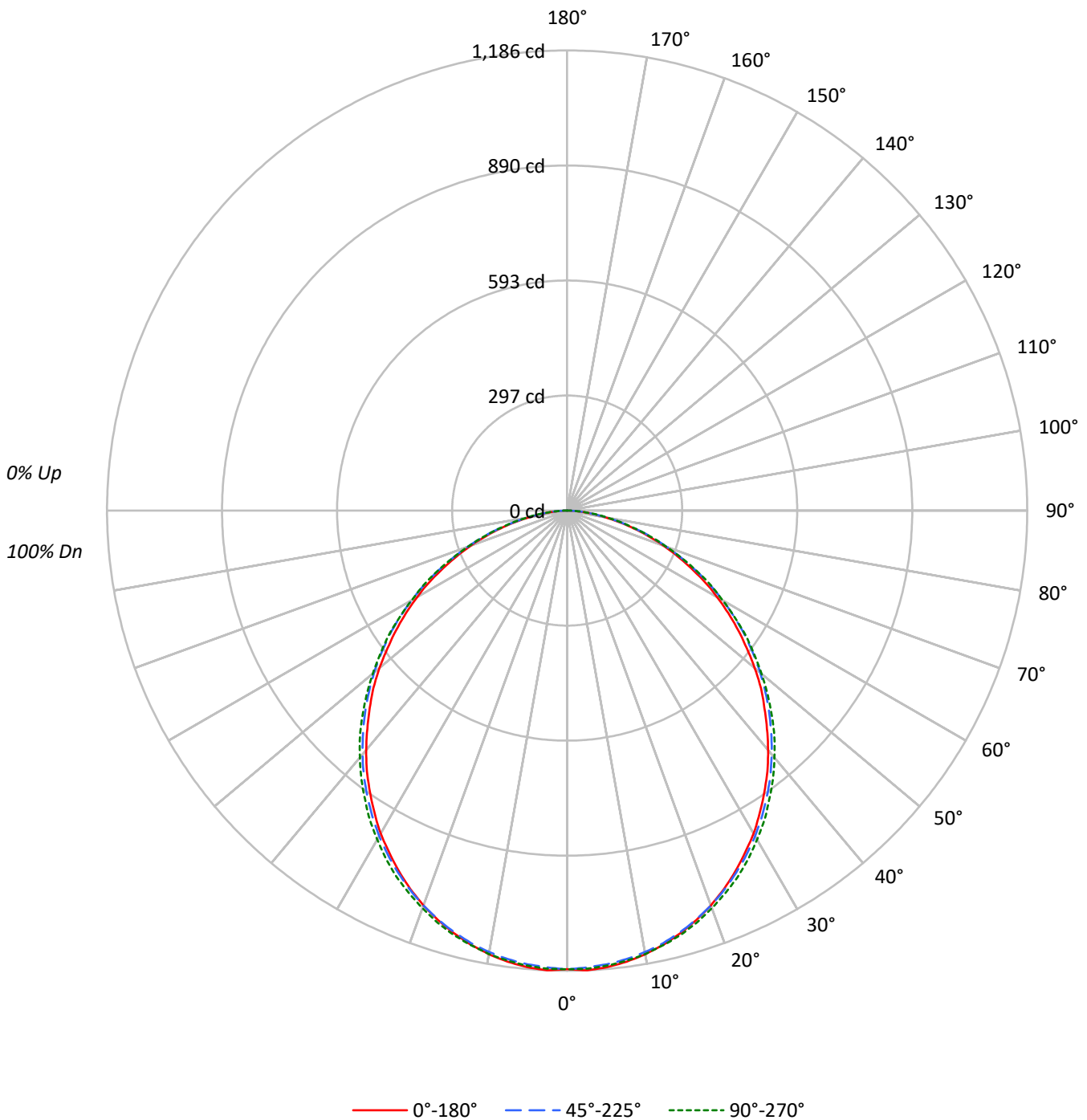
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475626

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475626

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L850-CD1-U

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°	1591	1591	1591
5°	1595	1585	1590
10°	1586	1579	1585
15°	1571	1567	1577
20°	1550	1551	1561
25°	1523	1530	1546
30°	1494	1505	1521
35°	1455	1475	1492
40°	1415	1441	1460
45°	1369	1402	1420
50°	1321	1360	1369
55°	1264	1309	1319
60°	1203	1244	1246
65°	1124	1168	1174
70°	1042	1071	1067
75°	925	959	961
80°	774	802	832
85°	580	625	647



TEST NUMBER: P475626

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.6
10°-20°	317.8	10.2
20°-30°	475.0	15.2
30°-40°	561.2	17.9
40°-50°	566.6	18.1
50°-60°	494.4	15.8
60°-70°	360.5	11.5
70°-80°	194.4	6.2
80°-90°	48.7	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°	904.5	28.9
0°-40°	1465.8	46.8
0°-60°	2526.8	80.7
0°-90°	3130.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3130.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1181	1177	1174	1175	1177	112
15°	1128	1125	1125	1128	1132	318
25°	1026	1026	1030	1037	1041	472
35°	886	888	898	907	908	554
45°	719	724	737	746	746	555
55°	539	545	558	560	562	481
65°	353	361	367	368	369	351
75°	178	180	184	185	185	189
85°	38	38	40	42	42	46
90°	0	0	0	0	0	



TEST NUMBER: P475626

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182.2	1182.2	1182.2	1182.2	1182.2
2.5°	1186.1	1181.8	1178.4	1179.1	1182.0
5°	1181.3	1177.0	1173.8	1174.9	1177.2
7.5°	1172.8	1168.9	1166.4	1167.4	1170.5
10°	1161.0	1157.9	1155.5	1157.1	1160.3
12.5°	1146.1	1142.9	1142.1	1144.4	1147.2
15°	1127.5	1125.2	1125.0	1127.7	1131.9
17.5°	1106.6	1104.3	1105.5	1109.1	1112.8
20°	1082.8	1080.7	1083.1	1087.9	1090.4
22.5°	1055.6	1053.9	1058.3	1063.3	1066.5
25°	1026.2	1026.4	1030.3	1036.8	1041.1
27.5°	993.5	994.8	1000.6	1007.0	1011.3
30°	961.4	960.4	968.7	975.6	978.8
32.5°	924.2	924.7	934.4	941.5	946.3
35°	886.0	888.5	898.1	906.8	908.5
37.5°	847.5	849.3	860.8	869.3	871.6
40°	805.8	809.0	820.3	828.3	831.2
42.5°	762.3	766.4	778.6	787.0	790.7
45°	719.2	724.3	736.8	746.0	746.2
47.5°	677.5	681.2	693.3	701.5	700.6
50°	631.0	636.5	649.5	654.4	653.9
52.5°	583.5	591.8	603.7	607.6	607.1
55°	538.7	545.3	558.1	560.2	562.2
57.5°	492.4	498.1	511.9	512.8	512.5
60°	447.2	452.3	462.4	464.9	463.0
62.5°	401.6	406.7	415.8	418.2	417.9
65°	353.1	360.8	366.8	367.5	368.7
67.5°	308.1	312.8	318.7	319.8	318.9
70°	264.8	268.8	272.2	272.9	271.3
72.5°	220.0	223.8	228.6	229.4	227.7
75°	178.0	179.8	184.4	185.1	184.9
77.5°	137.2	138.6	142.0	144.6	145.0
80°	99.9	100.4	103.5	105.4	107.4
82.5°	66.2	67.6	69.9	71.9	73.6
85°	37.6	38.5	40.5	42.4	41.9
87.5°	14.6	16.5	16.7	18.6	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)