

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: P475866

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475866  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-30-FGW080-UNV-L850-CD1-U  
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2660.6 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

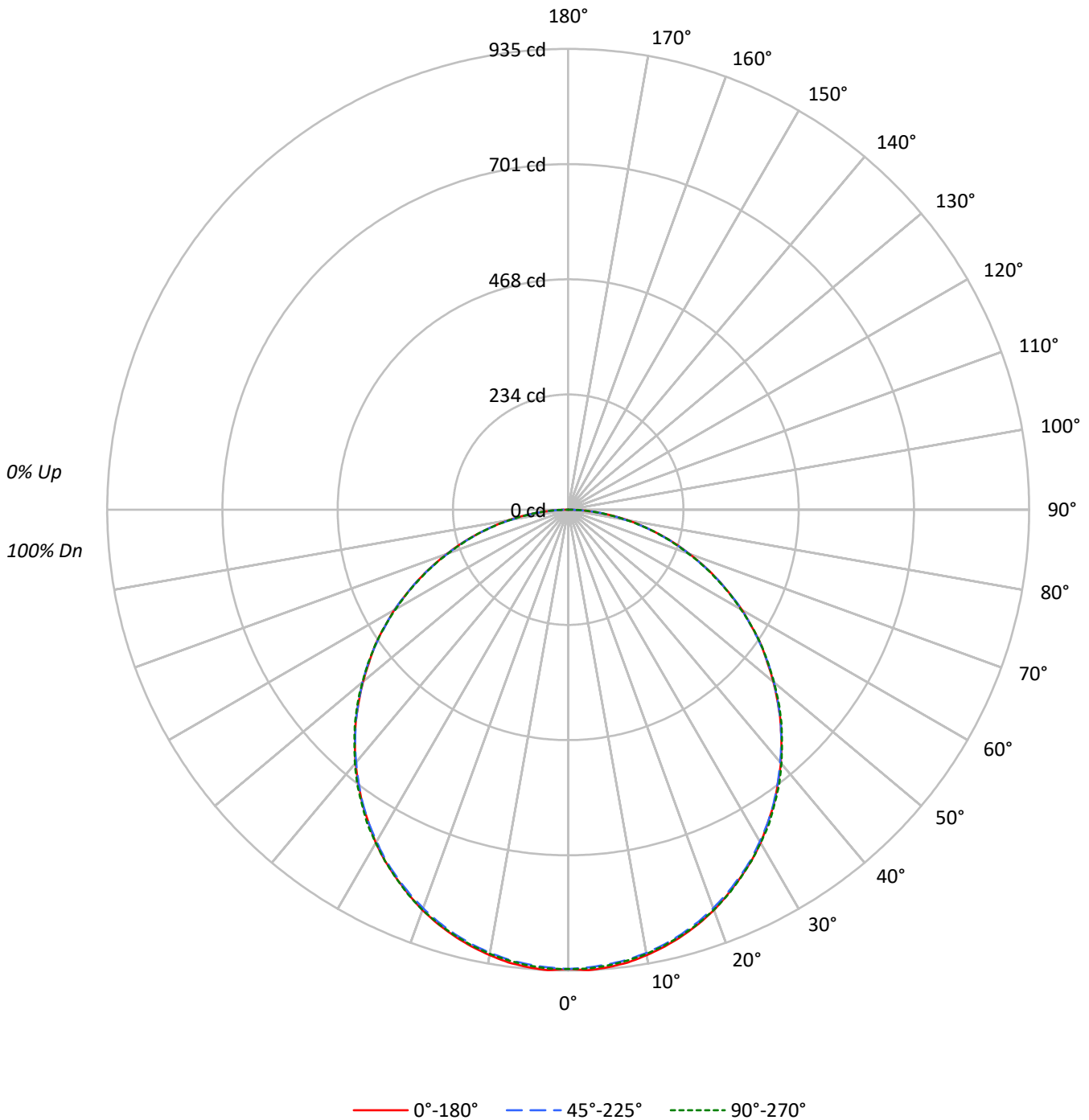
Input Watts (W): 21.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	1254	1254	1254
5°	1259	1251	1254
10°	1254	1248	1250
15°	1247	1241	1244
20°	1238	1232	1237
25°	1224	1221	1225
30°	1213	1208	1213
35°	1195	1193	1198
40°	1178	1175	1182
45°	1159	1159	1164
50°	1137	1140	1140
55°	1121	1117	1120
60°	1095	1095	1087
65°	1064	1063	1056
70°	1027	1025	1018
75°	988	985	986
80°	942	924	928
85°	837	837	846



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.1	3.3
10°-20°	251.7	9.5
20°-30°	379.5	14.3
30°-40°	454.8	17.1
40°-50°	469.9	17.7
50°-60°	425.5	16.0
60°-70°	329.7	12.4
70°-80°	199.9	7.5
80°-90°	61.4	2.3
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°	719.4	27.0
0°-40°	1174.2	44.1
0°-60°	2069.7	77.8
0°-90°	2660.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2660.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	932	928	926	926	928	89
15°	895	892	891	892	893	253
25°	825	823	822	824	825	380
35°	728	725	727	728	729	455
45°	609	608	609	610	612	470
55°	478	475	476	477	478	426
65°	334	332	334	333	332	330
75°	190	190	189	188	190	201
85°	54	55	54	53	55	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	931.9	931.9	931.9	931.9	931.9
2.5°	935.2	931.9	929.5	929.5	931.6
5°	931.9	928.3	926.2	926.2	928.3
7.5°	926.5	922.6	920.8	920.8	922.6
10°	917.8	914.7	913.2	913.2	915.0
12.5°	907.5	904.8	903.0	903.3	905.1
15°	895.2	892.5	891.0	891.6	893.4
17.5°	880.7	878.0	876.8	877.7	879.8
20°	864.5	861.1	860.5	861.4	863.9
22.5°	844.9	842.8	842.5	844.0	846.1
25°	824.7	822.9	822.3	824.1	825.3
27.5°	803.9	800.6	801.8	802.1	803.9
30°	780.5	777.4	777.4	778.6	780.5
32.5°	753.4	751.5	753.1	754.6	757.3
35°	727.8	725.0	726.6	727.8	729.3
37.5°	698.9	698.3	698.6	700.4	702.8
40°	670.9	669.0	669.0	671.5	672.7
42.5°	640.1	638.6	639.8	641.0	641.6
45°	609.1	607.9	609.1	610.0	611.8
47.5°	576.0	576.3	576.6	577.2	579.0
50°	543.2	544.4	544.7	545.9	544.7
52.5°	509.2	509.5	510.7	511.0	511.3
55°	477.8	475.1	476.0	476.6	477.5
57.5°	441.1	440.2	440.2	441.1	441.7
60°	407.1	405.3	406.8	405.0	404.1
62.5°	369.1	369.8	370.4	370.1	368.5
65°	334.2	332.4	333.9	333.0	331.8
67.5°	297.5	296.0	296.6	296.3	296.0
70°	261.1	261.1	260.5	258.9	258.9
72.5°	226.7	224.9	225.5	223.7	223.7
75°	190.0	190.0	189.4	187.6	189.7
77.5°	155.7	154.8	154.2	153.0	153.0
80°	121.6	119.5	119.2	119.2	119.8
82.5°	88.2	86.7	86.1	86.1	86.4
85°	54.2	55.1	54.2	53.3	54.8
87.5°	25.6	24.4	24.4	25.3	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)