

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: P475822

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475822
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-FGW080-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2831.3 lumens
Efficiency: N/A
Efficacy: 118.0 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

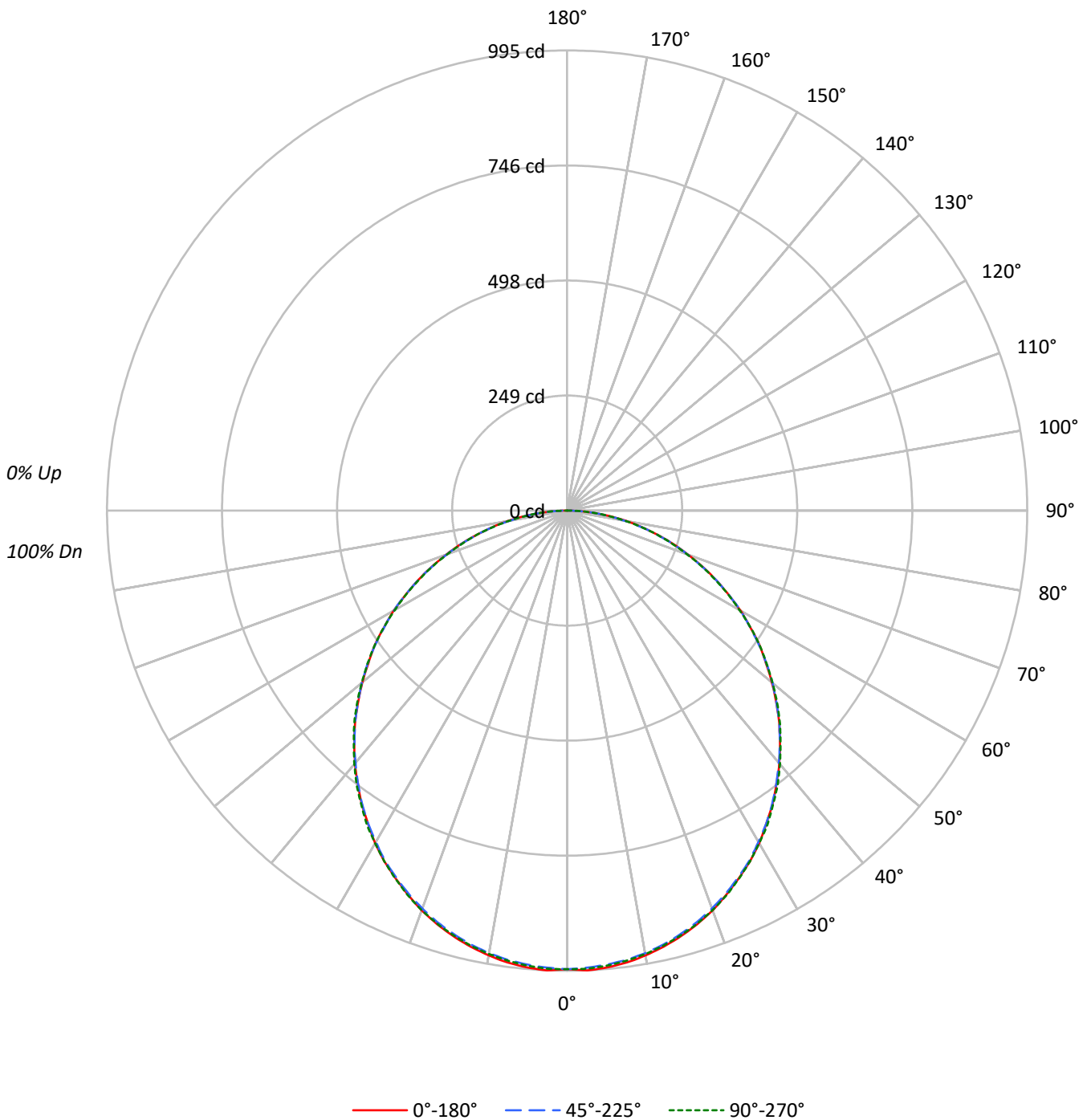
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475822

CATALOG NUMBER: 24GR-LD5-34-FGW080-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475822

CATALOG NUMBER: 24GR-LD5-34-FGW080-UNV-L830-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	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°	1334	1334	1334
5°	1339	1331	1334
10°	1334	1328	1330
15°	1327	1321	1324
20°	1317	1311	1316
25°	1303	1299	1304
30°	1290	1285	1290
35°	1272	1270	1275
40°	1254	1251	1257
45°	1233	1233	1239
50°	1210	1213	1213
55°	1193	1188	1192
60°	1166	1165	1157
65°	1132	1131	1124
70°	1093	1090	1084
75°	1051	1048	1050
80°	1003	983	988
85°	891	891	900



TEST NUMBER: P475822

CATALOG NUMBER: 24GR-LD5-34-FGW080-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	3.3
10°-20°	267.9	9.5
20°-30°	403.9	14.3
30°-40°	484.0	17.1
40°-50°	500.1	17.7
50°-60°	452.8	16.0
60°-70°	350.8	12.4
70°-80°	212.8	7.5
80°-90°	65.3	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°	765.5	27.0
0°-40°	1249.5	44.1
0°-60°	2202.4	77.8
0°-90°	2831.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2831.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	992	988	986	986	988	94
15°	953	950	948	949	951	269
25°	878	876	875	877	878	405
35°	774	772	773	774	776	484
45°	648	647	648	649	651	500
55°	508	506	507	507	508	453
65°	356	354	355	354	353	352
75°	202	202	202	200	202	214
85°	58	59	58	57	58	66
90°	0	0	0	0	0	



TEST NUMBER: P475822

CATALOG NUMBER: 24GR-LD5-34-FGW080-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	991.7	991.7	991.7	991.7	991.7
2.5°	995.2	991.7	989.1	989.1	991.4
5°	991.7	987.8	985.6	985.6	987.8
7.5°	985.9	981.8	979.8	979.8	981.8
10°	976.6	973.4	971.8	971.8	973.7
12.5°	965.7	962.8	960.9	961.2	963.2
15°	952.6	949.7	948.1	948.7	950.7
17.5°	937.2	934.3	933.0	934.0	936.3
20°	919.9	916.4	915.7	916.7	919.3
22.5°	899.1	896.8	896.5	898.1	900.4
25°	877.6	875.7	875.1	877.0	878.3
27.5°	855.5	852.0	853.3	853.6	855.5
30°	830.5	827.3	827.3	828.6	830.5
32.5°	801.7	799.8	801.4	803.0	805.8
35°	774.4	771.6	773.2	774.4	776.0
37.5°	743.7	743.0	743.4	745.3	747.8
40°	713.9	712.0	712.0	714.5	715.8
42.5°	681.2	679.6	680.9	682.2	682.8
45°	648.2	646.9	648.2	649.2	651.1
47.5°	613.0	613.3	613.6	614.2	616.2
50°	578.0	579.3	579.6	580.9	579.6
52.5°	541.8	542.1	543.4	543.7	544.1
55°	508.5	505.6	506.6	507.2	508.2
57.5°	469.4	468.4	468.4	469.4	470.0
60°	433.2	431.3	432.9	431.0	430.0
62.5°	392.8	393.5	394.1	393.8	392.2
65°	355.7	353.7	355.3	354.4	353.1
67.5°	316.6	315.0	315.6	315.3	315.0
70°	277.8	277.8	277.2	275.6	275.6
72.5°	241.3	239.3	240.0	238.1	238.1
75°	202.2	202.2	201.5	199.6	201.9
77.5°	165.7	164.7	164.1	162.8	162.8
80°	129.4	127.2	126.9	126.9	127.5
82.5°	93.9	92.3	91.6	91.6	92.0
85°	57.7	58.6	57.7	56.7	58.3
87.5°	27.2	26.0	26.0	26.9	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)