

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: P475823

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475823
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-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: 3127.4 lumens
Efficiency: N/A
Efficacy: 117.6 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

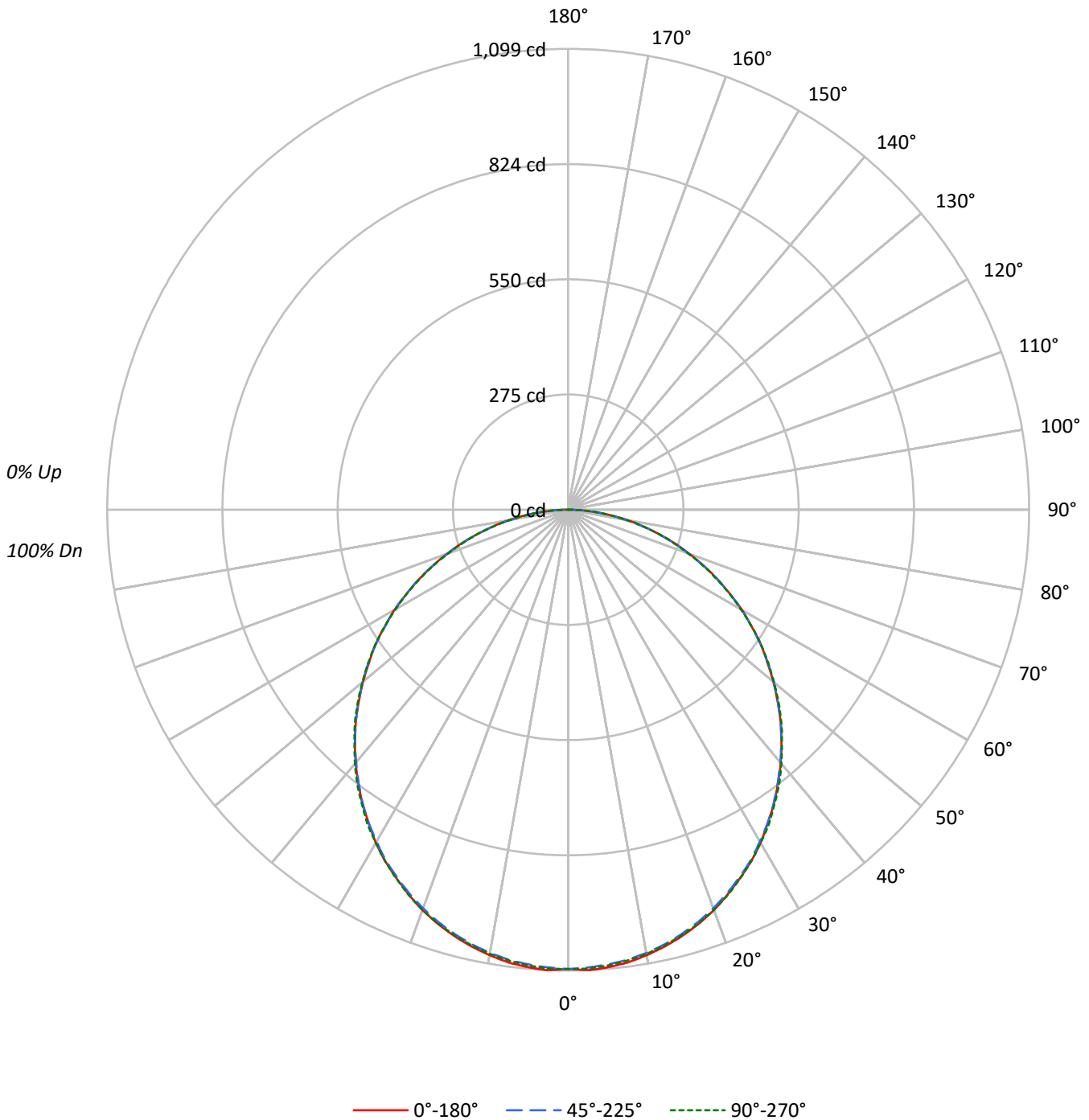
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475823

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475823

CATALOG NUMBER: 24GR-LD5-38-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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1474	1474	1474
5°	1479	1470	1474
10°	1474	1467	1470
15°	1466	1459	1463
20°	1455	1448	1454
25°	1439	1435	1440
30°	1425	1420	1425
35°	1405	1403	1408
40°	1385	1381	1389
45°	1362	1362	1369
50°	1337	1340	1340
55°	1318	1313	1317
60°	1288	1287	1278
65°	1251	1250	1242
70°	1207	1204	1197
75°	1161	1157	1159
80°	1108	1086	1092
85°	983	983	994



TEST NUMBER: P475823

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.3
10°-20°	295.9	9.5
20°-30°	446.1	14.3
30°-40°	534.6	17.1
40°-50°	552.3	17.7
50°-60°	500.2	16.0
60°-70°	387.5	12.4
70°-80°	235.0	7.5
80°-90°	72.2	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°	845.6	27.0
0°-40°	1380.2	44.1
0°-60°	2432.8	77.8
0°-90°	3127.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3127.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1095	1091	1089	1089	1091	104
15°	1052	1049	1047	1048	1050	297
25°	969	967	967	969	970	447
35°	855	852	854	855	857	535
45°	716	715	716	717	719	552
55°	562	558	560	560	561	500
65°	393	391	392	391	390	388
75°	223	223	223	220	223	237
85°	64	65	64	63	64	73
90°	0	0	0	0	0	



TEST NUMBER: P475823

CATALOG NUMBER: 24GR-LD5-38-FGW080-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.4	1095.4	1095.4	1095.4	1095.4
2.5°	1099.3	1095.4	1092.6	1092.6	1095.0
5°	1095.4	1091.1	1088.7	1088.7	1091.1
7.5°	1089.0	1084.4	1082.3	1082.3	1084.4
10°	1078.8	1075.2	1073.4	1073.4	1075.6
12.5°	1066.7	1063.5	1061.4	1061.8	1063.9
15°	1052.2	1049.0	1047.3	1048.0	1050.1
17.5°	1035.2	1032.0	1030.6	1031.7	1034.2
20°	1016.1	1012.2	1011.5	1012.6	1015.4
22.5°	993.1	990.6	990.3	992.0	994.5
25°	969.4	967.3	966.6	968.7	970.1
27.5°	945.0	941.1	942.5	942.8	945.0
30°	917.4	913.8	913.8	915.2	917.4
32.5°	885.5	883.4	885.2	886.9	890.1
35°	855.4	852.2	854.0	855.4	857.2
37.5°	821.5	820.7	821.1	823.2	826.1
40°	788.5	786.4	786.4	789.2	790.7
42.5°	752.4	750.7	752.1	753.5	754.2
45°	716.0	714.6	716.0	717.0	719.2
47.5°	677.1	677.4	677.8	678.5	680.6
50°	638.5	639.9	640.2	641.7	640.2
52.5°	598.5	598.8	600.3	600.6	601.0
55°	561.7	558.5	559.6	560.3	561.3
57.5°	518.5	517.4	517.4	518.5	519.2
60°	478.5	476.4	478.1	476.0	475.0
62.5°	433.9	434.6	435.3	435.0	433.2
65°	392.9	390.7	392.5	391.4	390.0
67.5°	349.7	347.9	348.6	348.3	347.9
70°	306.9	306.9	306.1	304.4	304.4
72.5°	266.5	264.4	265.1	263.0	263.0
75°	223.3	223.3	222.6	220.5	223.0
77.5°	183.0	181.9	181.2	179.8	179.8
80°	143.0	140.5	140.2	140.2	140.9
82.5°	103.7	101.9	101.2	101.2	101.6
85°	63.7	64.8	63.7	62.6	64.4
87.5°	30.1	28.7	28.7	29.7	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)