

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: P475868

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475868
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-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: 3305.6 lumens
Efficiency: N/A
Efficacy: 124.3 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

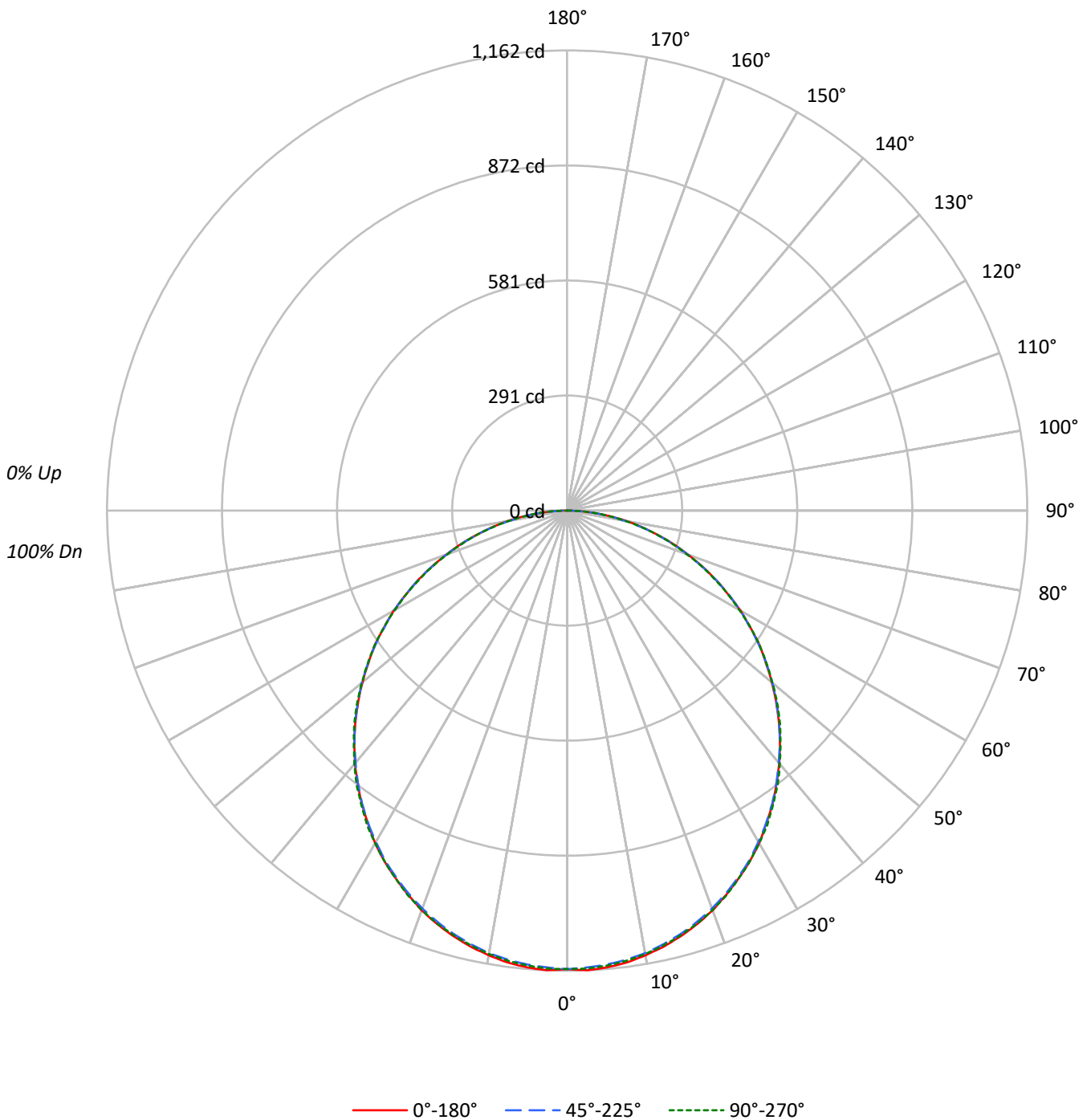
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1558	1558	1558
5°	1564	1554	1558
10°	1558	1550	1553
15°	1549	1542	1546
20°	1538	1531	1537
25°	1521	1517	1522
30°	1507	1501	1507
35°	1485	1483	1488
40°	1464	1460	1468
45°	1440	1440	1447
50°	1413	1416	1416
55°	1393	1387	1392
60°	1361	1360	1351
65°	1322	1321	1313
70°	1276	1273	1266
75°	1227	1223	1225
80°	1171	1148	1154
85°	1039	1039	1051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.3
10°-20°	312.8	9.5
20°-30°	471.5	14.3
30°-40°	565.1	17.1
40°-50°	583.8	17.7
50°-60°	528.7	16.0
60°-70°	409.6	12.4
70°-80°	248.4	7.5
80°-90°	76.3	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°	893.8	27.0
0°-40°	1458.9	44.1
0°-60°	2571.4	77.8
0°-90°	3305.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3305.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1158	1153	1151	1151	1153	110
15°	1112	1109	1107	1108	1110	314
25°	1025	1022	1022	1024	1025	472
35°	904	901	903	904	906	565
45°	757	755	757	758	760	583
55°	594	590	591	592	593	529
65°	415	413	415	414	412	410
75°	236	236	235	233	236	250
85°	67	68	67	66	68	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1157.8	1157.8	1157.8	1157.8	1157.8
2.5°	1161.9	1157.8	1154.8	1154.8	1157.4
5°	1157.8	1153.3	1150.7	1150.7	1153.3
7.5°	1151.1	1146.2	1144.0	1144.0	1146.2
10°	1140.2	1136.5	1134.6	1134.6	1136.9
12.5°	1127.5	1124.2	1121.9	1122.3	1124.5
15°	1112.2	1108.8	1106.9	1107.7	1109.9
17.5°	1094.2	1090.9	1089.4	1090.5	1093.1
20°	1074.0	1069.9	1069.2	1070.3	1073.3
22.5°	1049.7	1047.1	1046.7	1048.6	1051.2
25°	1024.6	1022.4	1021.7	1023.9	1025.4
27.5°	998.8	994.7	996.2	996.6	998.8
30°	969.7	965.9	965.9	967.4	969.7
32.5°	936.0	933.7	935.6	937.5	940.8
35°	904.2	900.8	902.7	904.2	906.1
37.5°	868.3	867.5	867.9	870.1	873.1
40°	833.5	831.2	831.2	834.2	835.7
42.5°	795.3	793.5	795.0	796.4	797.2
45°	756.8	755.3	756.8	757.9	760.2
47.5°	715.6	716.0	716.4	717.1	719.4
50°	674.9	676.4	676.7	678.2	676.7
52.5°	632.6	633.0	634.5	634.8	635.2
55°	593.7	590.3	591.4	592.2	593.3
57.5°	548.0	546.9	546.9	548.0	548.8
60°	505.8	503.5	505.4	503.2	502.0
62.5°	458.6	459.4	460.1	459.8	457.9
65°	415.2	413.0	414.9	413.7	412.3
67.5°	369.6	367.7	368.5	368.1	367.7
70°	324.3	324.3	323.6	321.7	321.7
72.5°	281.7	279.4	280.2	278.0	278.0
75°	236.1	236.1	235.3	233.1	235.7
77.5°	193.4	192.3	191.5	190.0	190.0
80°	151.1	148.5	148.1	148.1	148.9
82.5°	109.6	107.7	107.0	107.0	107.4
85°	67.3	68.5	67.3	66.2	68.1
87.5°	31.8	30.3	30.3	31.4	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)