

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: P475836

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475836
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-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2608.5 lumens
Efficiency: N/A
Efficacy: 122.5 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

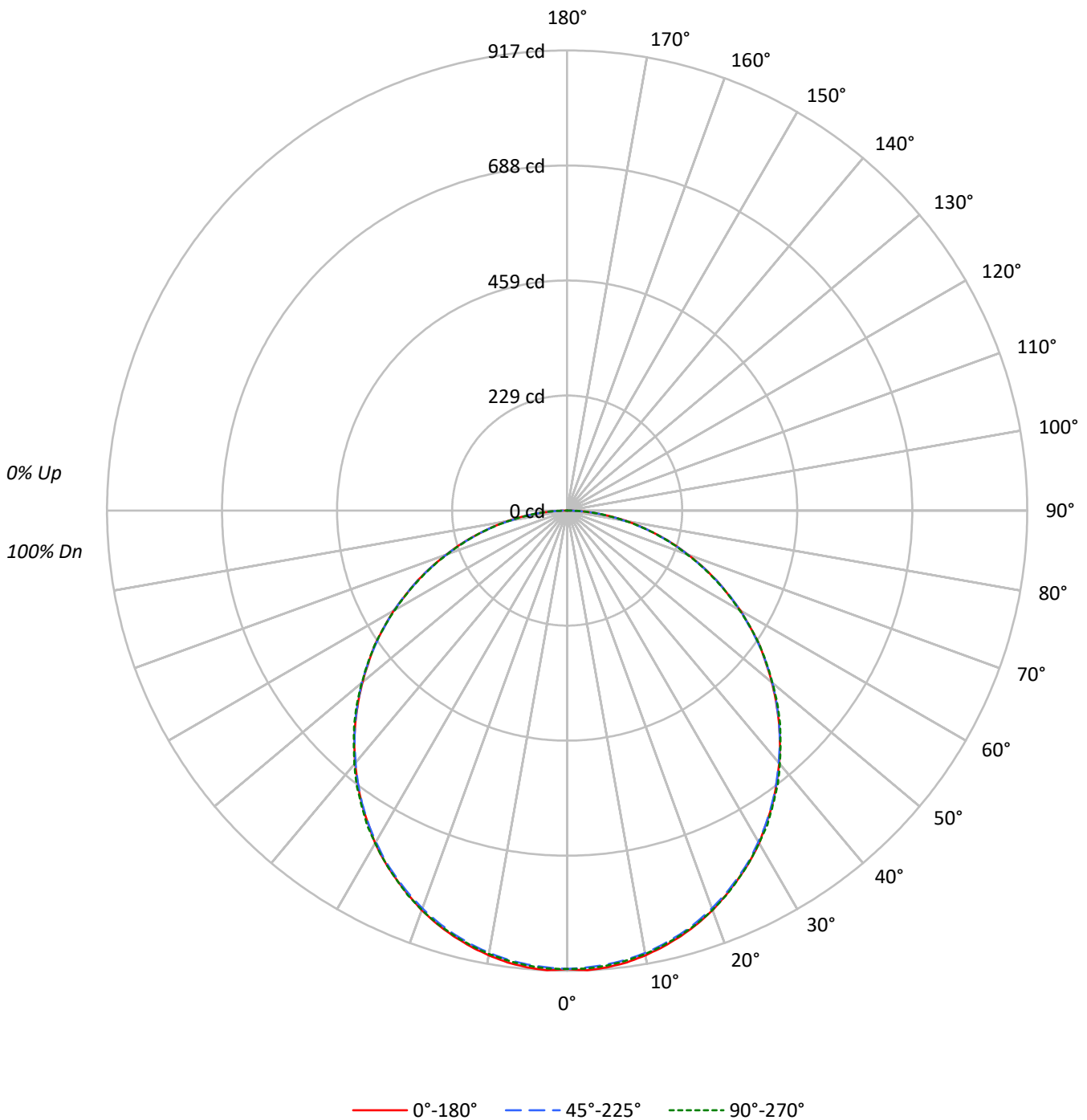
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1229	1229	1229
5°	1234	1226	1229
10°	1229	1223	1226
15°	1222	1217	1220
20°	1213	1208	1213
25°	1200	1197	1201
30°	1189	1184	1189
35°	1172	1170	1174
40°	1155	1152	1158
45°	1136	1136	1141
50°	1115	1118	1118
55°	1099	1095	1098
60°	1074	1073	1066
65°	1043	1042	1036
70°	1007	1004	999
75°	968	965	967
80°	924	906	910
85°	820	820	829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.3
10°-20°	246.8	9.5
20°-30°	372.1	14.3
30°-40°	445.9	17.1
40°-50°	460.7	17.7
50°-60°	417.2	16.0
60°-70°	323.2	12.4
70°-80°	196.0	7.5
80°-90°	60.2	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°	705.3	27.0
0°-40°	1151.2	44.1
0°-60°	2029.1	77.8
0°-90°	2608.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2608.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	914	910	908	908	910	87
15°	878	875	874	874	876	248
25°	808	807	806	808	809	373
35°	714	711	712	714	715	446
45°	597	596	597	598	600	460
55°	468	466	467	467	468	417
65°	328	326	327	326	325	324
75°	186	186	186	184	186	198
85°	53	54	53	52	54	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.6	913.6	913.6	913.6	913.6
2.5°	916.9	913.6	911.3	911.3	913.3
5°	913.6	910.1	908.0	908.0	910.1
7.5°	908.3	904.5	902.7	902.7	904.5
10°	899.8	896.8	895.3	895.3	897.1
12.5°	889.7	887.1	885.3	885.6	887.4
15°	877.6	875.0	873.5	874.1	875.8
17.5°	863.4	860.8	859.6	860.5	862.6
20°	847.5	844.3	843.7	844.6	846.9
22.5°	828.3	826.3	826.0	827.4	829.5
25°	808.5	806.8	806.2	808.0	809.1
27.5°	788.2	784.9	786.1	786.4	788.2
30°	765.1	762.2	762.2	763.4	765.1
32.5°	738.6	736.8	738.3	739.8	742.4
35°	713.5	710.8	712.3	713.5	715.0
37.5°	685.2	684.6	684.9	686.6	689.0
40°	657.7	655.9	655.9	658.3	659.5
42.5°	627.6	626.1	627.3	628.5	629.1
45°	597.2	596.0	597.2	598.1	599.8
47.5°	564.7	565.0	565.3	565.9	567.7
50°	532.5	533.7	534.0	535.2	534.0
52.5°	499.2	499.5	500.7	500.9	501.2
55°	468.5	465.8	466.7	467.3	468.2
57.5°	432.5	431.6	431.6	432.5	433.1
60°	399.1	397.3	398.8	397.0	396.2
62.5°	361.9	362.5	363.1	362.8	361.3
65°	327.7	325.9	327.4	326.5	325.3
67.5°	291.7	290.2	290.8	290.5	290.2
70°	255.9	255.9	255.3	253.9	253.9
72.5°	222.3	220.5	221.1	219.3	219.3
75°	186.3	186.3	185.7	183.9	186.0
77.5°	152.6	151.7	151.1	150.0	150.0
80°	119.3	117.2	116.9	116.9	117.5
82.5°	86.5	85.0	84.4	84.4	84.7
85°	53.1	54.0	53.1	52.2	53.7
87.5°	25.1	23.9	23.9	24.8	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)