

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: P476125

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476125
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-FGW080-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3021.0 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

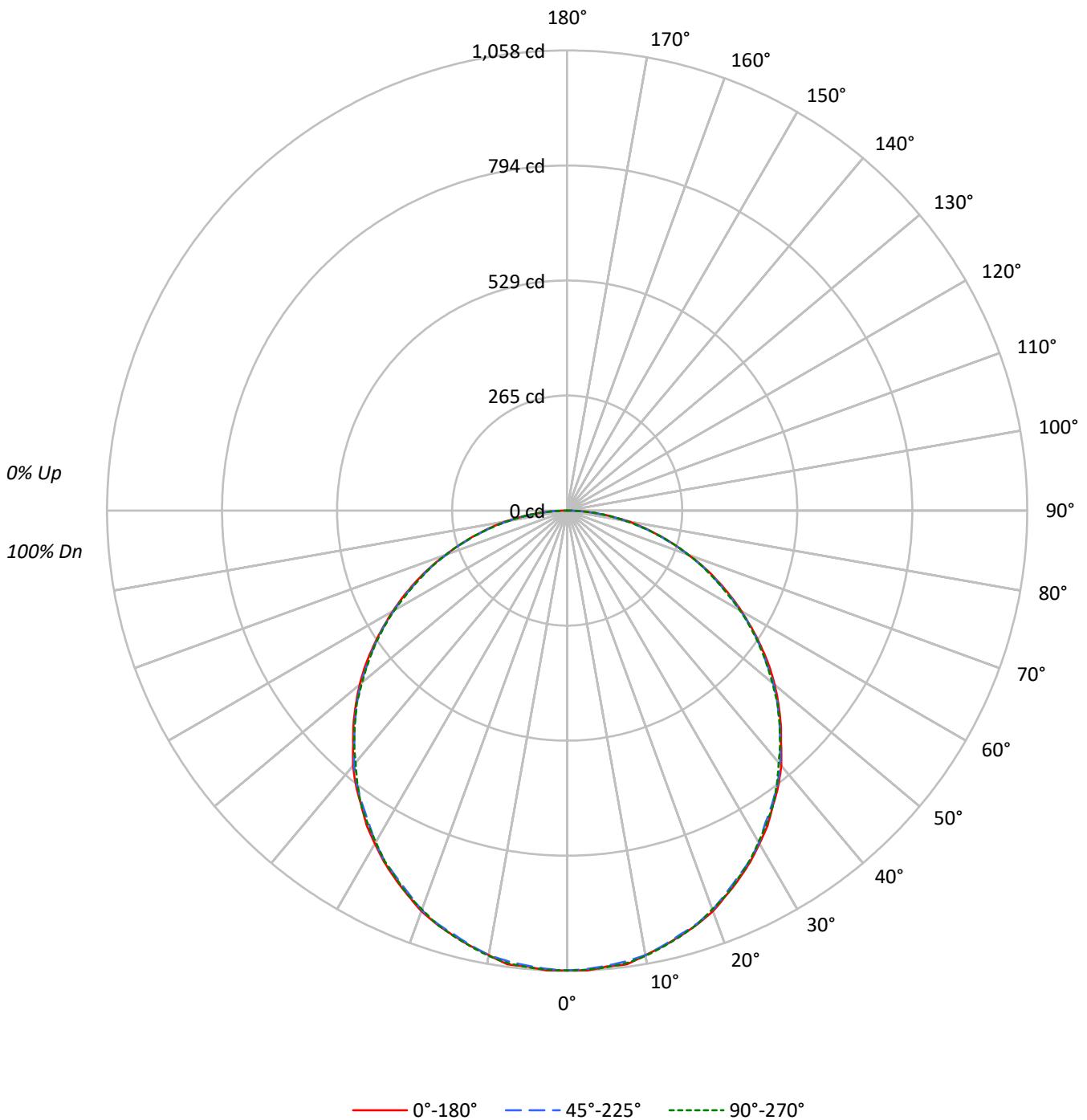
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	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	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	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	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	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°	2846	2846	2846
5°	2842	2837	2847
10°	2836	2836	2841
15°	2817	2810	2820
20°	2807	2799	2794
25°	2776	2760	2768
30°	2748	2740	2734
35°	2713	2702	2713
40°	2689	2677	2658
45°	2643	2626	2626
50°	2606	2592	2577
55°	2551	2535	2531
60°	2492	2478	2468
65°	2428	2400	2388
70°	2331	2324	2331
75°	2250	2223	2241
80°	2225	2115	2101
85°	1973	1920	1945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	3.3
10°-20°	285.4	9.4
20°-30°	429.8	14.2
30°-40°	515.7	17.1
40°-50°	533.6	17.7
50°-60°	483.6	16.0
60°-70°	374.8	12.4
70°-80°	227.5	7.5
80°-90°	70.5	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°	815.2	27.0
0°-40°	1330.9	44.1
0°-60°	2348.2	77.7
0°-90°	3021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1052	1052	1050	1053	1054	100
15°	1011	1011	1009	1013	1012	286
25°	935	933	930	933	932	431
35°	826	826	822	823	826	518
45°	694	694	690	690	690	536
55°	544	543	540	539	539	486
65°	381	381	377	379	375	377
75°	216	216	214	214	216	230
85°	64	63	62	62	63	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.5	1057.5	1057.5	1057.5	1057.5
2.5°	1058.3	1053.9	1054.8	1056.6	1056.6
5°	1052.1	1052.1	1050.4	1053.0	1053.9
7.5°	1052.1	1047.7	1045.0	1047.7	1049.5
10°	1037.9	1036.1	1037.9	1037.0	1039.7
12.5°	1025.5	1023.7	1023.7	1026.4	1026.4
15°	1011.3	1011.3	1008.6	1013.1	1012.2
17.5°	997.1	997.1	995.3	995.3	997.1
20°	980.2	975.8	977.5	976.7	975.8
22.5°	957.1	954.5	952.7	955.3	956.2
25°	934.9	933.2	929.6	933.2	932.3
27.5°	911.0	909.2	908.3	906.5	908.3
30°	884.3	882.5	881.7	879.9	879.9
32.5°	857.7	854.1	849.7	854.1	853.2
35°	825.9	825.9	822.4	823.3	825.9
37.5°	797.5	795.8	794.0	791.3	792.2
40°	765.6	762.9	762.0	760.2	756.7
42.5°	728.3	728.3	724.7	725.6	724.7
45°	694.5	693.6	690.1	690.1	690.1
47.5°	659.0	658.1	655.5	653.7	655.5
50°	622.6	619.1	619.1	616.4	615.5
52.5°	584.7	582.0	578.4	579.3	577.6
55°	543.8	542.9	540.3	539.4	539.4
57.5°	503.0	503.9	502.1	498.5	499.4
60°	463.0	462.1	460.4	458.6	458.6
62.5°	422.2	422.2	418.6	418.6	415.1
65°	381.3	381.3	376.9	378.7	375.1
67.5°	340.7	339.8	337.2	336.3	337.2
70°	296.3	297.2	295.4	295.4	296.3
72.5°	256.4	255.5	254.6	254.6	256.4
75°	216.4	215.5	213.8	213.8	215.5
77.5°	180.0	175.6	174.7	176.5	173.8
80°	143.6	137.4	136.5	135.6	135.6
82.5°	101.2	98.6	99.4	98.6	100.3
85°	63.9	63.0	62.2	62.2	63.0
87.5°	30.2	28.4	28.4	27.5	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)