

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: P476026

Luminaire Tested: **22GR-LD5-24-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476026
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-A-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2277.4 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

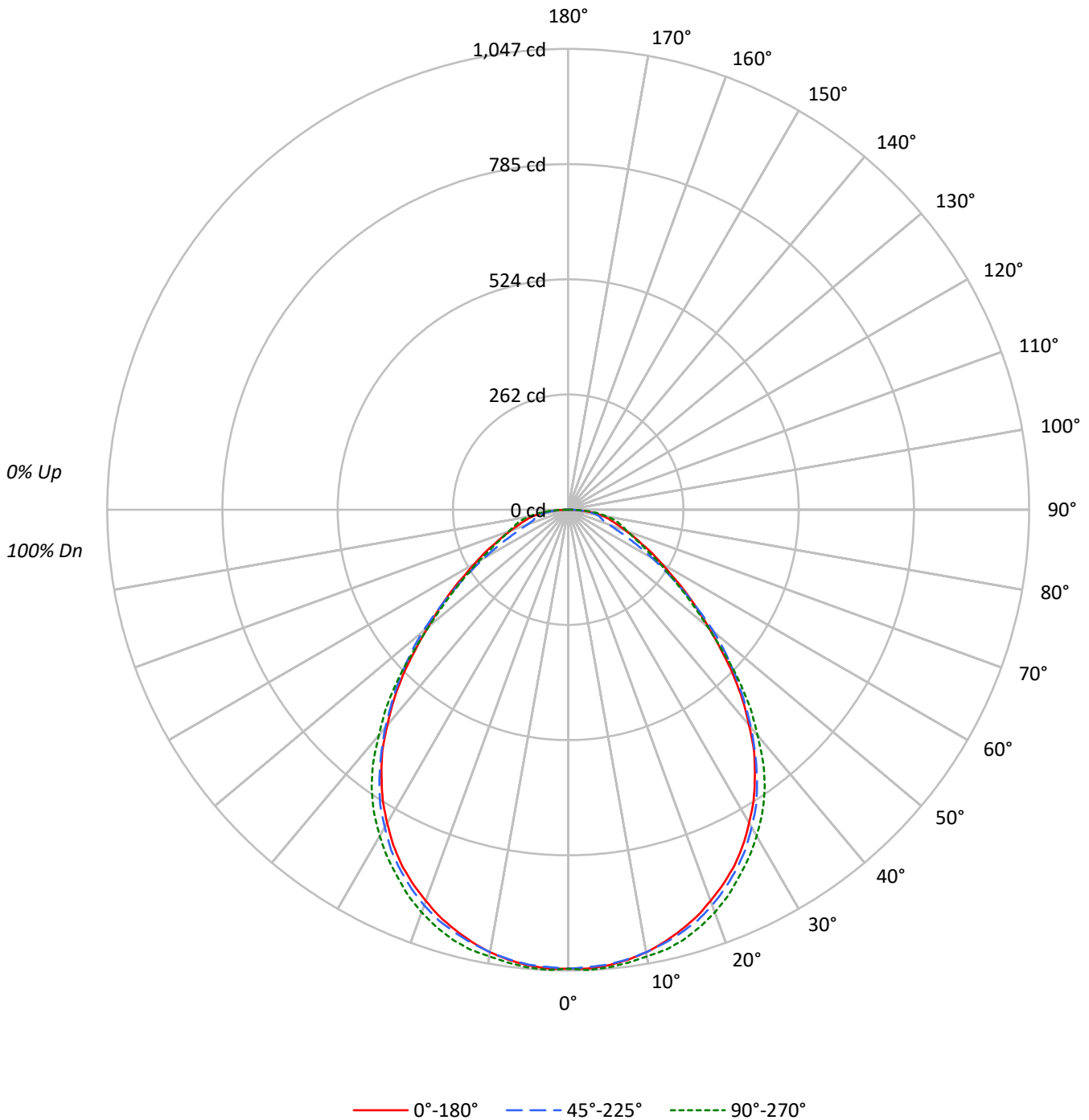
Input Watts (W): 17.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2806	2806	2806
5°	2807	2803	2820
10°	2790	2789	2816
15°	2755	2770	2819
20°	2708	2739	2788
25°	2650	2680	2729
30°	2554	2589	2660
35°	2429	2456	2556
40°	2245	2270	2349
45°	2017	2053	2085
50°	1744	1806	1726
55°	1522	1482	1462
60°	1318	1186	1266
65°	1178	932	1138
70°	1092	771	1122
75°	1091	815	1246
80°	1209	1026	1404
85°	1260	1112	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	4.3
10°-20°	281.1	12.3
20°-30°	415.7	18.3
30°-40°	469.2	20.6
40°-50°	413.6	18.2
50°-60°	283.7	12.5
60°-70°	167.4	7.4
70°-80°	104.5	4.6
80°-90°	43.6	1.9
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°	795.5	34.9
0°-40°	1264.7	55.5
0°-60°	1962.0	86.1
0°-90°	2277.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2277.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1039	1037	1038	1041	1044	99
15°	989	990	994	1006	1012	279
25°	892	896	902	914	919	410
35°	739	746	748	766	778	461
45°	530	533	540	543	548	407
55°	324	316	316	305	312	291
65°	185	163	146	169	179	186
75°	105	94	78	110	120	113
85°	41	38	36	47	52	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.9	1042.9	1042.9	1042.9	1042.9
2.5°	1043.5	1040.8	1039.8	1044.0	1046.7
5°	1039.3	1037.2	1037.7	1041.4	1044.0
7.5°	1031.8	1030.3	1030.3	1035.5	1038.2
10°	1021.2	1020.8	1020.8	1027.1	1030.7
12.5°	1006.5	1006.9	1009.0	1017.5	1023.9
15°	988.9	989.9	994.3	1006.5	1011.7
17.5°	969.9	969.9	978.3	987.8	994.3
20°	945.5	947.0	956.5	967.2	973.5
22.5°	920.5	923.2	931.2	943.4	949.1
25°	892.5	895.7	902.5	914.2	919.0
27.5°	859.6	863.8	871.3	879.7	889.8
30°	821.9	828.4	833.1	844.8	855.9
32.5°	783.8	789.7	795.0	807.2	819.8
35°	739.3	745.6	747.7	765.8	778.0
37.5°	693.7	696.4	697.4	715.5	728.7
40°	639.2	644.4	646.1	660.4	668.8
42.5°	586.6	588.8	591.9	602.6	612.7
45°	529.9	532.6	539.5	542.7	548.0
47.5°	470.6	478.6	486.5	476.4	476.9
50°	416.5	422.9	431.4	412.3	412.3
52.5°	368.3	371.5	372.0	356.2	359.3
55°	324.4	316.4	315.8	305.3	311.6
57.5°	280.3	269.8	266.0	262.8	270.2
60°	244.8	225.8	220.4	225.2	235.3
62.5°	215.7	191.3	181.2	193.4	202.5
65°	185.0	162.7	146.3	169.1	178.7
67.5°	161.1	140.0	118.8	151.0	157.9
70°	138.8	122.4	98.0	137.3	142.6
72.5°	120.9	108.1	84.8	124.0	130.4
75°	104.9	94.4	78.4	109.7	119.8
77.5°	92.3	80.5	73.2	94.8	107.0
80°	78.0	66.2	66.2	79.5	90.6
82.5°	61.4	51.9	53.6	64.6	72.6
85°	40.8	38.1	36.0	47.1	51.5
87.5°	20.6	21.2	19.1	24.4	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)