

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: P476071

Luminaire Tested: **22GR-LD5-85-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476071
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-A-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8455.3 lumens
Efficiency: N/A
Efficacy: 130.5 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

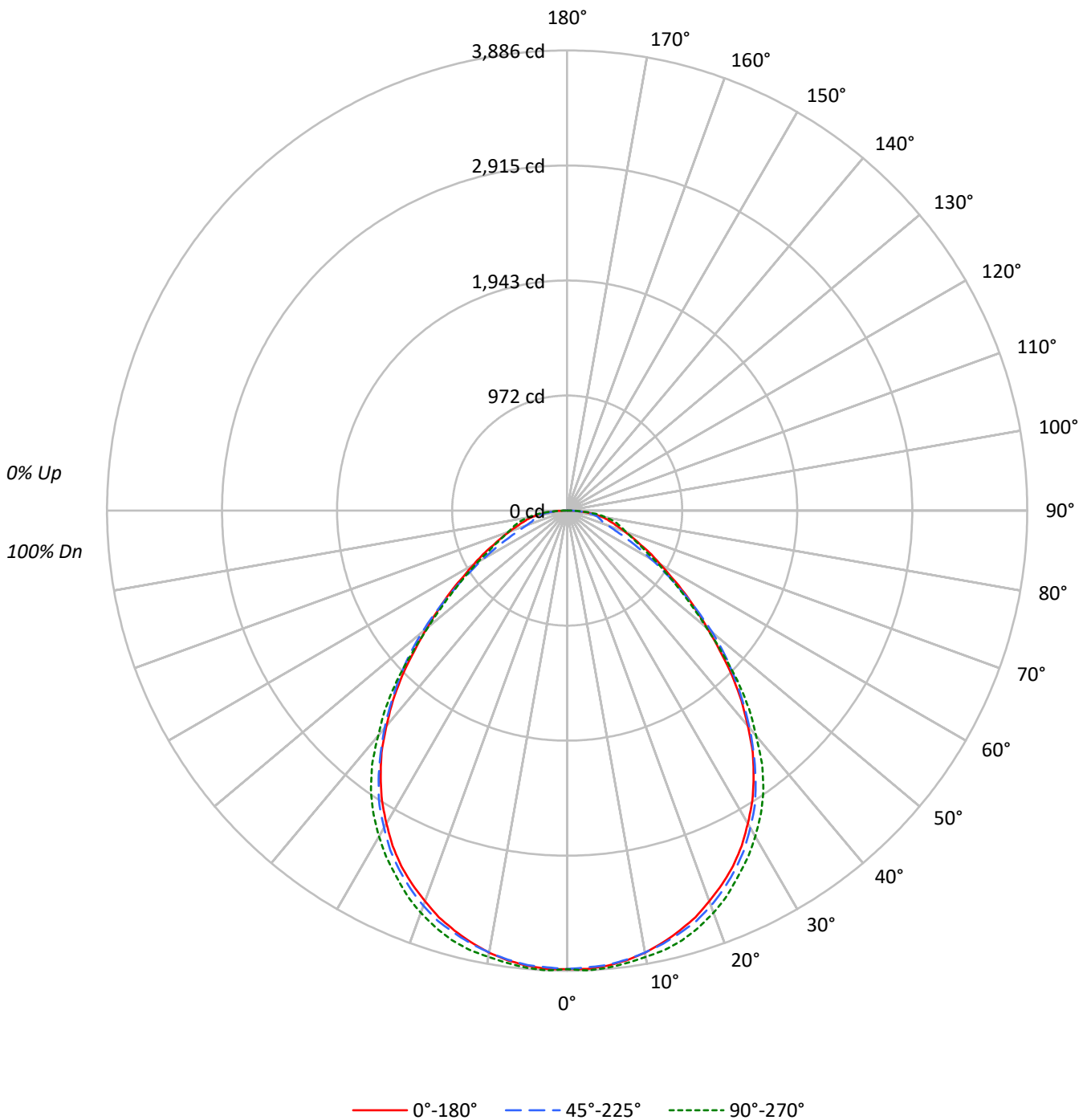
Input Watts (W): 64.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10420	10420	10420
5°	10423	10407	10471
10°	10360	10356	10457
15°	10229	10284	10464
20°	10052	10170	10350
25°	9838	9949	10130
30°	9482	9611	9873
35°	9017	9120	9489
40°	8336	8426	8722
45°	7488	7623	7743
50°	6473	6705	6408
55°	5650	5501	5428
60°	4893	4405	4702
65°	4372	3457	4223
70°	4055	2863	4166
75°	4049	3026	4623
80°	4486	3808	5212
85°	4678	4131	5900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	4.3
10°-20°	1043.6	12.3
20°-30°	1543.5	18.3
30°-40°	1741.8	20.6
40°-50°	1535.5	18.2
50°-60°	1053.3	12.5
60°-70°	621.6	7.4
70°-80°	387.8	4.6
80°-90°	161.7	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°	2953.6	34.9
0°-40°	4695.5	55.5
0°-60°	7284.2	86.1
0°-90°	8455.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8455.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3872	3872	3872	3872	3872	
5°	3859	3851	3853	3866	3876	366
15°	3672	3675	3691	3737	3756	1035
25°	3313	3325	3351	3394	3412	1522
35°	2745	2768	2776	2843	2889	1710
45°	1968	1977	2003	2015	2035	1511
55°	1204	1175	1172	1134	1157	1080
65°	687	604	543	628	663	692
75°	389	350	291	407	445	418
85°	152	142	134	175	191	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3872.1	3872.1	3872.1	3872.1	3872.1
2.5°	3874.2	3864.3	3860.6	3876.3	3886.2
5°	3858.6	3850.8	3852.8	3866.4	3876.3
7.5°	3831.0	3825.2	3825.2	3844.5	3854.4
10°	3791.4	3789.8	3789.8	3813.3	3826.8
12.5°	3736.7	3738.3	3746.1	3777.9	3801.3
15°	3671.6	3675.3	3691.4	3736.7	3756.0
17.5°	3600.8	3600.8	3632.1	3667.5	3691.4
20°	3510.2	3516.0	3551.4	3590.9	3614.4
22.5°	3417.6	3427.5	3457.1	3502.4	3523.8
25°	3313.4	3325.4	3350.9	3394.1	3411.8
27.5°	3191.6	3207.2	3234.8	3266.1	3303.5
30°	3051.6	3075.5	3093.2	3136.4	3177.5
32.5°	2909.9	2931.8	2951.6	2996.9	3043.7
35°	2744.9	2768.3	2776.1	2843.3	2888.6
37.5°	2575.7	2585.6	2589.2	2656.4	2705.3
40°	2373.1	2392.4	2398.7	2451.8	2483.0
42.5°	2177.9	2186.2	2197.7	2237.2	2274.7
45°	1967.5	1977.4	2003.0	2014.9	2034.7
47.5°	1747.3	1777.0	1806.1	1768.7	1770.7
50°	1546.3	1570.3	1601.5	1530.7	1530.7
52.5°	1367.2	1379.2	1381.3	1322.5	1333.9
55°	1204.3	1174.6	1172.5	1133.5	1156.9
57.5°	1040.8	1001.7	987.7	975.7	1003.3
60°	909.1	838.3	818.5	836.2	873.7
62.5°	800.8	710.2	672.7	718.0	751.8
65°	686.7	604.0	543.0	627.9	663.3
67.5°	598.2	519.6	441.0	560.7	586.3
70°	515.4	454.5	363.9	509.7	529.5
72.5°	448.8	401.4	315.0	460.3	484.2
75°	389.4	350.4	291.0	407.2	444.6
77.5°	342.6	298.9	271.8	352.0	397.3
80°	289.5	245.7	245.7	295.2	336.3
82.5°	228.0	192.6	198.9	240.0	269.7
85°	151.5	141.6	133.8	174.9	191.1
87.5°	76.5	78.6	70.8	90.6	92.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)