

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: P475903

Luminaire Tested: **22GR-LD5-85-F1-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475903
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-F1-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F1 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8543.2 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.17 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

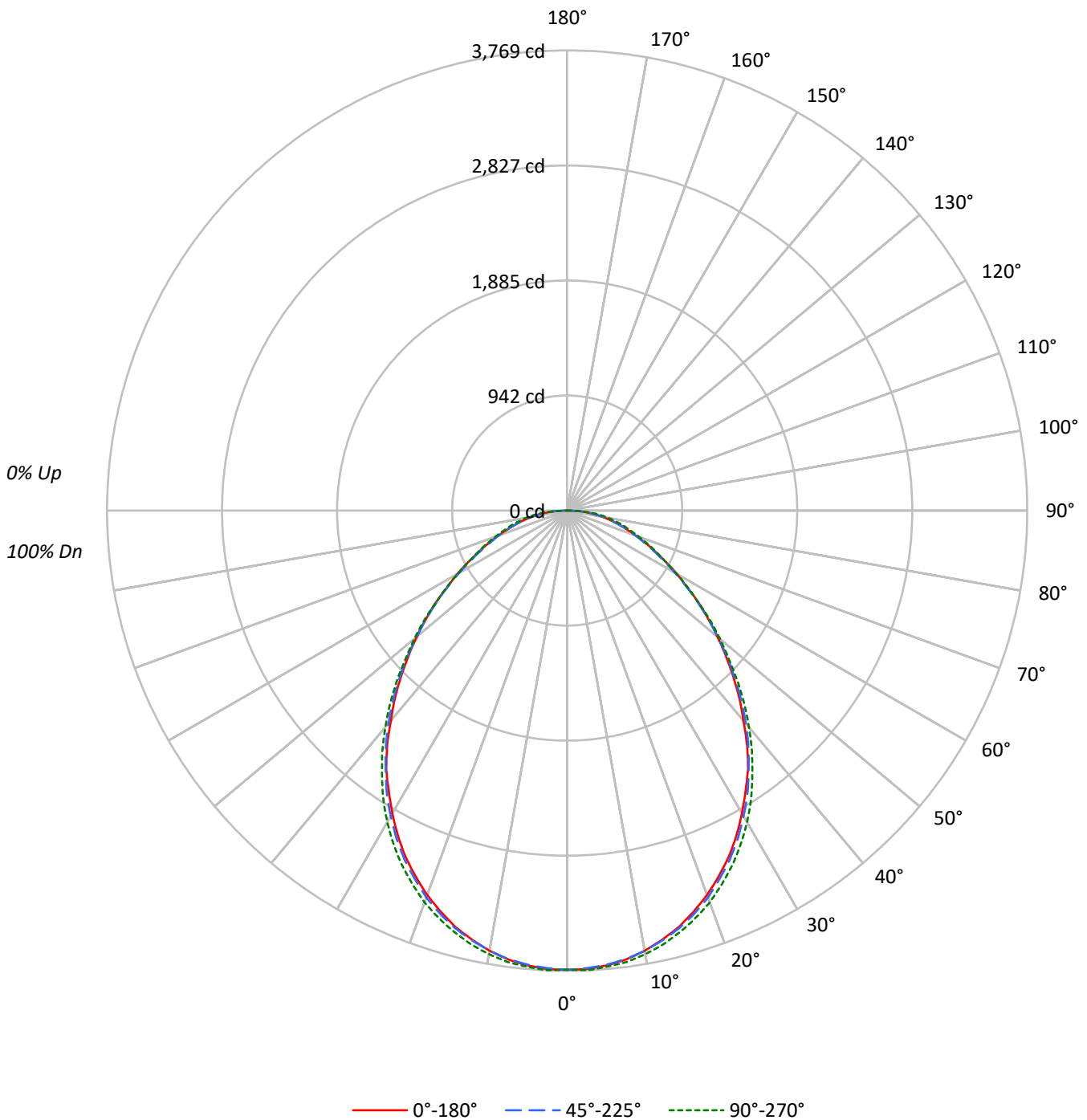
Input Watts (W): 64.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10122	10122	10122
5°	10102	10083	10131
10°	10002	10002	10081
15°	9836	9867	9957
20°	9595	9657	9781
25°	9296	9360	9510
30°	8900	8978	9157
35°	8486	8510	8687
40°	7885	7999	8138
45°	7322	7390	7500
50°	6727	6727	6833
55°	6169	6102	6136
60°	5584	5487	5565
65°	5093	4978	5138
70°	4706	4677	4904
75°	4532	4495	4945
80°	4578	4578	5249
85°	4783	5005	6008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.7	4.2
10°-20°	998.5	11.7
20°-30°	1451.8	17.0
30°-40°	1625.0	19.0
40°-50°	1499.8	17.6
50°-60°	1170.4	13.7
60°-70°	792.2	9.3
70°-80°	473.1	5.5
80°-90°	177.7	2.1
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°	2804.9	32.8
0°-40°	4429.9	51.9
0°-60°	7100.2	83.1
0°-90°	8543.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8543.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3761	3761	3761	3761	3761	
5°	3740	3733	3733	3747	3751	354
15°	3531	3531	3542	3563	3574	993
25°	3131	3131	3152	3185	3203	1438
35°	2583	2580	2590	2630	2644	1607
45°	1924	1935	1942	1956	1971	1484
55°	1315	1304	1301	1308	1308	1173
65°	800	793	782	796	807	797
75°	436	432	432	458	476	463
85°	155	151	162	187	195	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3761.4	3761.4	3761.4	3761.4	3761.4
2.5°	3757.8	3750.6	3750.6	3761.4	3768.6
5°	3739.8	3732.6	3732.6	3747.0	3750.6
7.5°	3707.3	3703.7	3703.7	3718.2	3729.0
10°	3660.5	3656.9	3660.5	3674.9	3689.3
12.5°	3599.3	3599.3	3606.5	3624.5	3638.9
15°	3530.8	3530.8	3541.6	3563.2	3574.0
17.5°	3444.3	3447.9	3462.4	3487.6	3498.4
20°	3350.7	3357.9	3372.3	3393.9	3415.5
22.5°	3242.6	3249.8	3264.2	3296.6	3311.0
25°	3130.9	3130.9	3152.5	3184.9	3202.9
27.5°	3001.2	3004.8	3026.4	3062.4	3080.5
30°	2864.3	2875.1	2889.5	2921.9	2947.1
32.5°	2720.2	2731.0	2749.0	2785.0	2803.0
35°	2583.3	2579.7	2590.5	2630.1	2644.5
37.5°	2421.1	2424.7	2439.1	2468.0	2486.0
40°	2244.6	2262.6	2277.0	2298.6	2316.6
42.5°	2089.7	2100.5	2111.3	2132.9	2147.3
45°	1923.9	1934.7	1941.9	1956.4	1970.8
47.5°	1761.8	1765.4	1776.2	1783.4	1794.2
50°	1606.9	1610.5	1606.9	1617.7	1632.1
52.5°	1455.6	1452.0	1452.0	1455.6	1477.2
55°	1315.0	1304.2	1300.6	1307.8	1307.8
57.5°	1160.1	1156.5	1156.5	1152.9	1170.9
60°	1037.6	1026.8	1019.6	1026.8	1034.0
62.5°	911.5	900.7	893.5	907.9	907.9
65°	799.8	792.6	781.8	796.2	807.0
67.5°	691.8	684.5	680.9	699.0	713.4
70°	598.1	594.5	594.5	612.5	623.3
72.5°	511.6	508.0	508.0	533.2	544.0
75°	435.9	432.3	432.3	457.6	475.6
77.5°	360.3	356.7	367.5	389.1	407.1
80°	295.4	291.8	295.4	324.3	338.7
82.5°	223.4	223.4	230.6	259.4	273.8
85°	154.9	151.3	162.1	187.3	194.6
87.5°	79.3	82.9	86.5	100.9	100.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)