

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: P234093

Luminaire Tested: **22GR-LD5-85-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-F1-UNV-L930-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6746.8 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

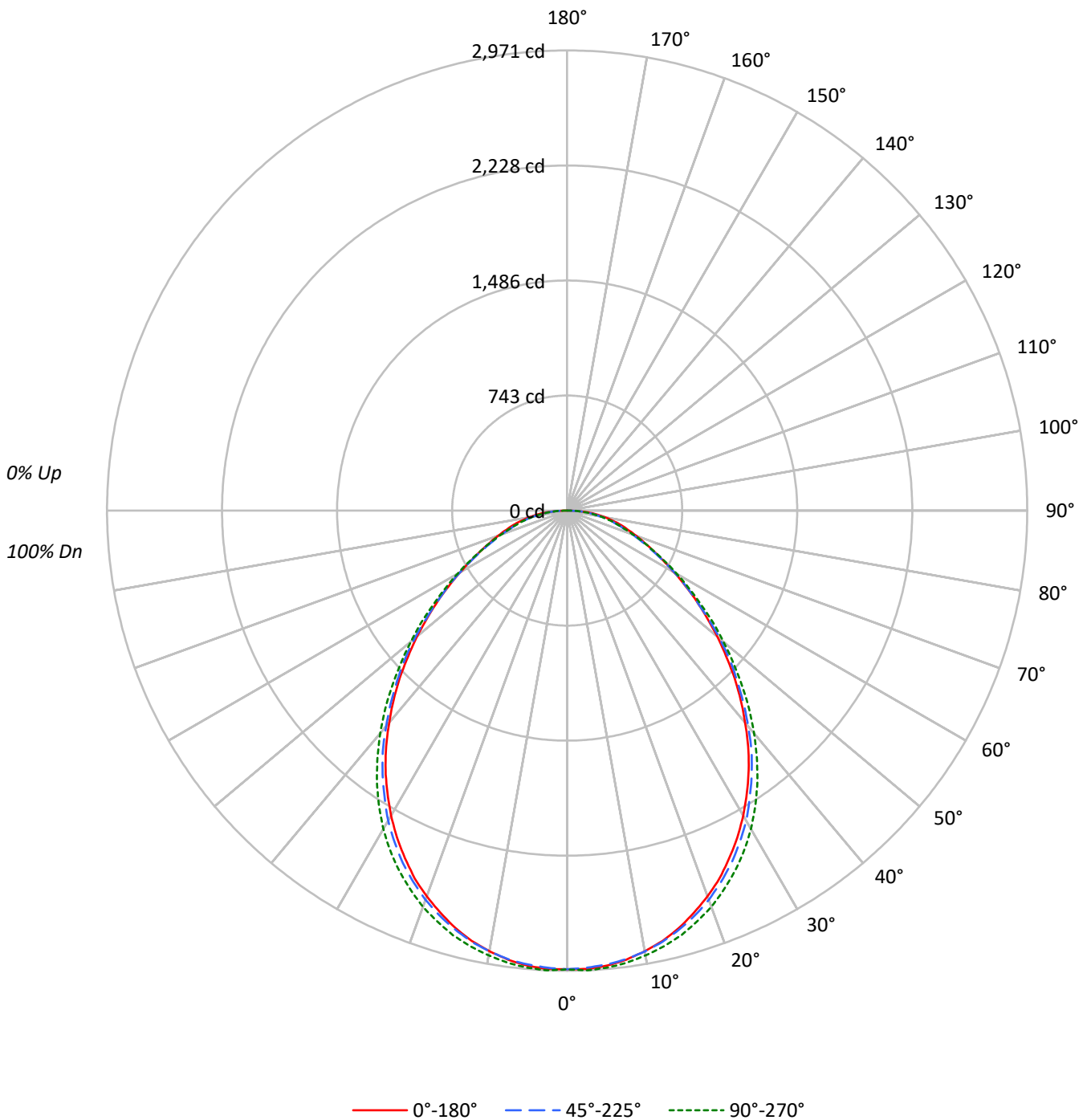
Input Watts (W): 81.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9485	9485	9485
5°	9481	9456	9521
10°	9392	9397	9484
15°	9249	9280	9415
20°	9032	9112	9278
25°	8751	8873	9066
30°	8405	8550	8776
35°	7993	8122	8372
40°	7474	7598	7847
45°	6920	7026	7232
50°	6302	6404	6567
55°	5690	5707	5874
60°	5103	5123	5244
65°	4650	4555	4662
70°	4426	4178	4251
75°	4456	4029	4049
80°	4620	4070	4043
85°	5063	4314	4082



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.8	4.1
10°-20°	790.5	11.7
20°-30°	1157.0	17.1
30°-40°	1300.8	19.3
40°-50°	1199.6	17.8
50°-60°	924.6	13.7
60°-70°	610.1	9.0
70°-80°	355.1	5.3
80°-90°	129.4	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°	2227.2	33.0
0°-40°	3528.0	52.3
0°-60°	5652.2	83.8
0°-90°	6746.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6746.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2962	2962	2962	2962	2962	
5°	2949	2943	2942	2956	2962	280
15°	2790	2790	2799	2824	2840	785
25°	2477	2489	2511	2545	2566	1139
35°	2044	2054	2077	2120	2142	1275
45°	1528	1530	1551	1583	1597	1176
55°	1019	1018	1022	1039	1052	914
65°	614	610	601	606	615	615
75°	360	344	326	319	327	379
85°	138	136	117	108	111	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2961.8	2961.8	2961.8	2961.8	2961.8
2.5°	2961.8	2955.6	2954.0	2965.0	2971.3
5°	2949.3	2943.1	2941.5	2955.6	2961.8
7.5°	2924.3	2919.6	2921.2	2936.8	2944.6
10°	2888.3	2886.7	2889.8	2907.1	2916.4
12.5°	2846.0	2844.4	2850.7	2869.5	2882.0
15°	2789.6	2789.6	2799.1	2824.1	2839.7
17.5°	2722.3	2727.0	2741.1	2766.2	2783.4
20°	2650.3	2655.0	2673.8	2702.0	2722.3
22.5°	2570.5	2576.8	2595.5	2630.0	2647.2
25°	2476.6	2489.1	2511.0	2545.4	2565.8
27.5°	2379.5	2393.6	2413.9	2456.2	2475.0
30°	2273.0	2282.5	2312.2	2351.4	2373.2
32.5°	2160.4	2169.7	2194.8	2241.7	2260.5
35°	2044.5	2053.9	2077.4	2119.6	2141.5
37.5°	1919.3	1927.1	1955.3	1988.2	2011.6
40°	1787.8	1798.8	1817.5	1856.6	1877.0
42.5°	1659.4	1664.1	1684.4	1723.6	1739.2
45°	1527.9	1529.5	1551.4	1582.7	1596.8
47.5°	1391.7	1394.8	1421.5	1440.2	1454.4
50°	1264.9	1266.5	1285.3	1302.5	1318.1
52.5°	1138.1	1138.1	1147.5	1166.3	1186.6
55°	1019.1	1017.5	1022.2	1039.4	1052.0
57.5°	906.4	904.9	911.1	922.1	931.4
60°	796.8	793.7	799.9	806.2	818.8
62.5°	699.8	702.9	695.0	704.5	713.8
65°	613.7	610.5	601.1	605.8	615.2
67.5°	540.1	535.4	519.7	522.8	533.8
70°	472.7	463.4	446.2	446.2	454.0
72.5°	411.7	402.3	380.4	382.0	385.1
75°	360.1	344.4	325.6	319.4	327.2
77.5°	303.7	291.2	274.0	269.3	272.4
80°	250.5	241.1	220.7	214.4	219.2
82.5°	198.8	191.0	167.5	162.8	164.4
85°	137.8	136.2	117.4	108.0	111.1
87.5°	73.6	75.1	61.1	54.8	57.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)