

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: P234095

Luminaire Tested: **22GR-LD5-85-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234095
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-L940-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7356.5 lumens
Efficiency: N/A
Efficacy: 90.8 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

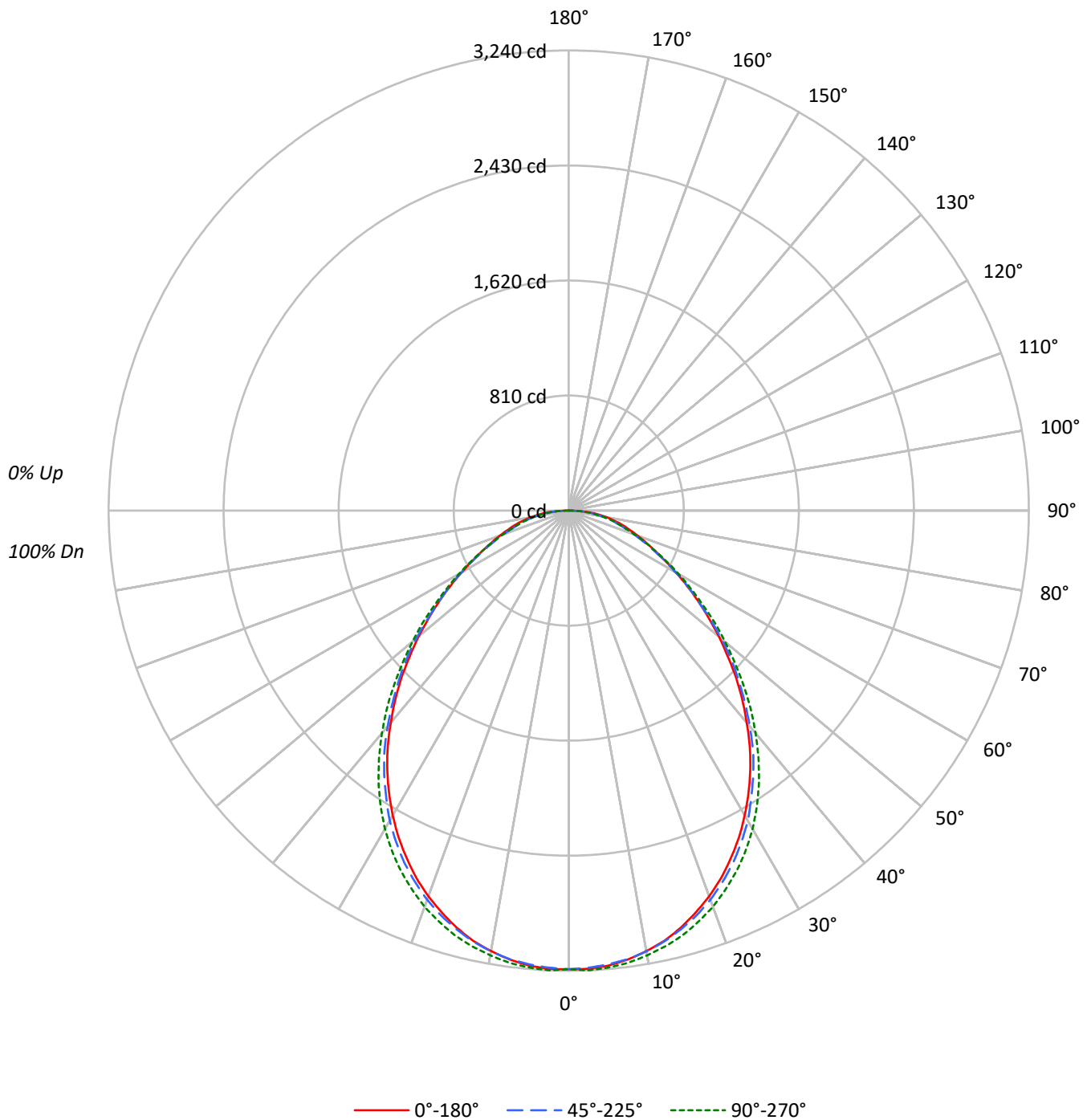
Input Watts (W): 81.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	105	101	97	107	103	99	96		99	96	93			95	92	90			91
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	75	69	90	81	74	68		78	72	67			75	70	66			73
4	85	74	65	59	83	72	65	59		70	63	58			68	62	57			65
5	78	66	58	52	76	65	57	51		63	56	51			61	55	50			59
6	73	60	52	45	71	59	51	45		57	50	45			56	49	45			54
7	68	55	46	41	66	54	46	40		53	45	40			51	45	40			50
8	63	50	42	36	62	50	42	36		48	41	36			47	41	36			46
9	59	46	38	33	58	46	38	33		45	38	33			44	37	33			43
10	56	43	35	30	54	42	35	30		41	35	30			40	34	30			40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10342	10342	10342
5°	10338	10311	10382
10°	10241	10247	10341
15°	10085	10119	10266
20°	9849	9936	10116
25°	9542	9675	9886
30°	9165	9323	9569
35°	8715	8855	9129
40°	8149	8285	8556
45°	7545	7661	7885
50°	6871	6982	7160
55°	6204	6223	6405
60°	5565	5586	5718
65°	5070	4967	5083
70°	4827	4555	4635
75°	4858	4393	4414
80°	5037	4439	4408
85°	5519	4707	4453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.1	4.1
10°-20°	861.9	11.7
20°-30°	1261.5	17.1
30°-40°	1418.3	19.3
40°-50°	1308.0	17.8
50°-60°	1008.1	13.7
60°-70°	665.2	9.0
70°-80°	387.2	5.3
80°-90°	141.1	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°	2428.5	33.0
0°-40°	3846.8	52.3
0°-60°	6163.0	83.8
0°-90°	7356.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7356.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3230	3230	3230	3230	3230	
5°	3216	3209	3207	3223	3230	305
15°	3042	3042	3052	3079	3096	856
25°	2700	2714	2738	2776	2798	1242
35°	2229	2240	2265	2311	2335	1390
45°	1666	1668	1692	1726	1741	1283
55°	1111	1110	1115	1133	1147	997
65°	669	666	656	661	671	671
75°	393	376	355	348	357	414
85°	150	148	128	118	121	159
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3229.5	3229.5	3229.5	3229.5	3229.5
2.5°	3229.5	3222.7	3221.0	3232.9	3239.8
5°	3215.9	3209.0	3207.3	3222.7	3229.5
7.5°	3188.5	3183.5	3185.1	3202.2	3210.7
10°	3149.3	3147.6	3151.0	3169.8	3180.0
12.5°	3103.2	3101.5	3108.3	3128.8	3142.4
15°	3041.7	3041.7	3052.0	3079.3	3096.3
17.5°	2968.4	2973.4	2988.8	3016.1	3034.9
20°	2889.9	2894.9	2915.4	2946.2	2968.4
22.5°	2802.7	2809.6	2830.1	2867.7	2886.4
25°	2700.4	2714.0	2737.9	2775.5	2797.7
27.5°	2594.5	2609.9	2632.1	2678.2	2698.7
30°	2478.4	2488.7	2521.1	2563.8	2587.7
32.5°	2355.5	2365.8	2393.1	2444.3	2464.8
35°	2229.2	2239.5	2265.1	2311.2	2335.1
37.5°	2092.7	2101.2	2131.9	2167.8	2193.4
40°	1949.3	1961.2	1981.8	2024.4	2046.6
42.5°	1809.4	1814.4	1836.6	1879.4	1896.4
45°	1666.0	1667.6	1691.5	1725.7	1741.1
47.5°	1517.5	1520.9	1549.9	1570.4	1585.8
50°	1379.2	1380.9	1401.4	1420.2	1437.2
52.5°	1240.9	1240.9	1251.2	1271.7	1293.9
55°	1111.2	1109.5	1114.6	1133.4	1147.1
57.5°	988.3	986.6	993.5	1005.3	1015.7
60°	868.9	865.4	872.2	879.1	892.8
62.5°	763.0	766.4	757.9	768.2	778.4
65°	669.1	665.7	655.5	660.6	670.8
67.5°	588.9	583.8	566.7	570.1	582.0
70°	515.5	505.2	486.5	486.5	495.0
72.5°	448.9	438.7	414.8	416.5	419.9
75°	392.6	375.6	355.0	348.2	356.7
77.5°	331.2	317.5	298.7	293.6	297.0
80°	273.1	262.9	240.7	233.8	239.0
82.5°	216.8	208.2	182.7	177.5	179.2
85°	150.2	148.5	128.1	117.8	121.2
87.5°	80.2	82.0	66.6	59.8	63.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)