

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: P234092

Luminaire Tested: **22GR-LD5-70-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234092
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-LD5-70-F1-UNV-L950-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6998.0 lumens
Efficiency: N/A
Efficacy: 109.1 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

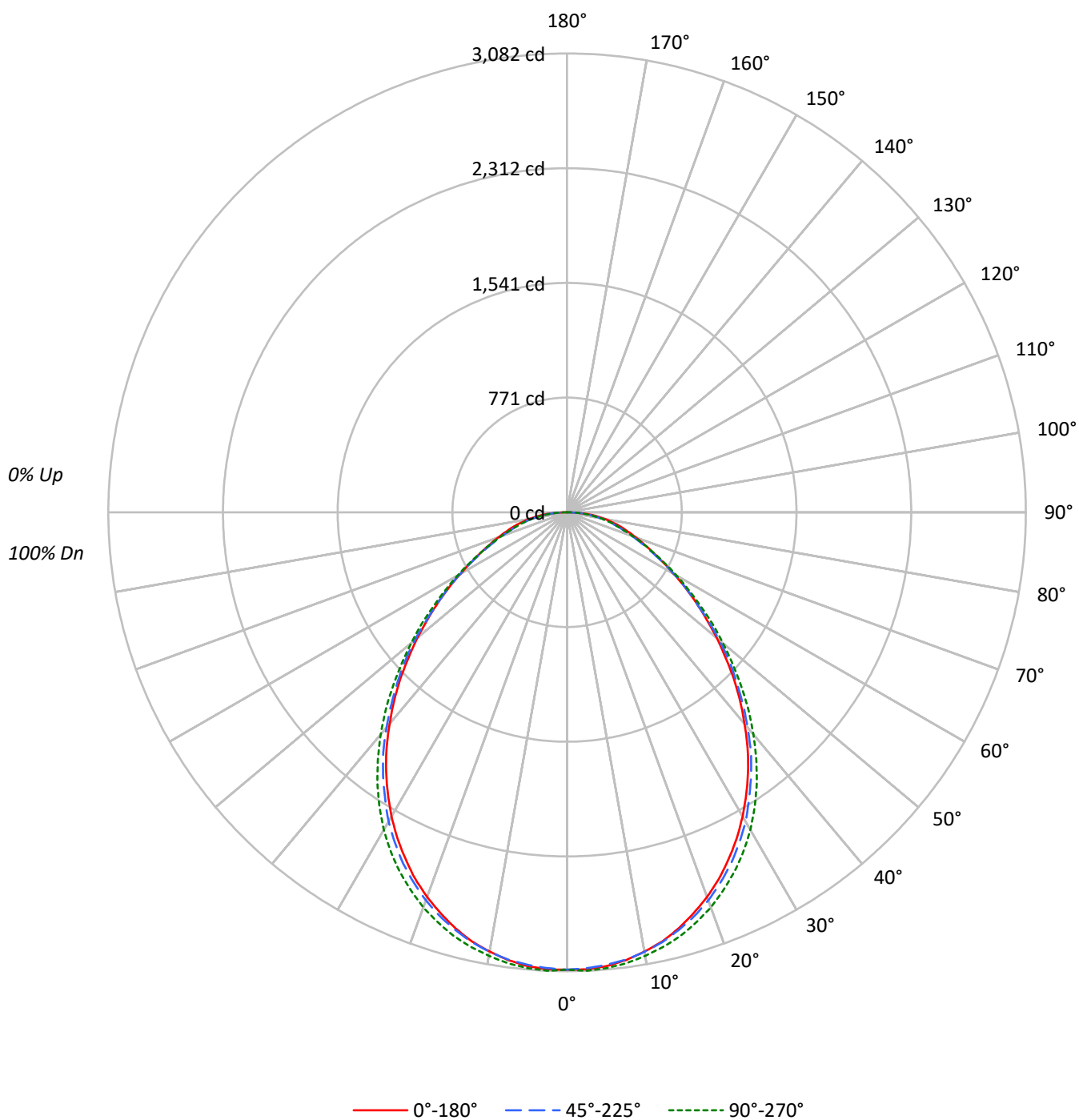
Input Watts (W): 64.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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°	9839	9839	9839
5°	9834	9808	9876
10°	9742	9747	9837
15°	9593	9626	9766
20°	9369	9452	9623
25°	9077	9203	9404
30°	8719	8869	9103
35°	8291	8424	8684
40°	7752	7881	8139
45°	7178	7288	7501
50°	6537	6642	6812
55°	5902	5920	6093
60°	5294	5314	5439
65°	4823	4725	4835
70°	4592	4332	4409
75°	4621	4179	4198
80°	4791	4223	4192
85°	5251	4475	4237



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	4.1
10°-20°	819.9	11.7
20°-30°	1200.0	17.1
30°-40°	1349.2	19.3
40°-50°	1244.3	17.8
50°-60°	959.0	13.7
60°-70°	632.8	9.0
70°-80°	368.3	5.3
80°-90°	134.2	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°	2310.2	33.0
0°-40°	3659.4	52.3
0°-60°	5862.7	83.8
0°-90°	6998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3072	3072	3072	3072	3072	
5°	3059	3053	3051	3066	3072	290
15°	2894	2894	2903	2929	2946	814
25°	2569	2582	2604	2640	2661	1182
35°	2121	2130	2155	2199	2221	1322
45°	1585	1586	1609	1642	1656	1220
55°	1057	1055	1060	1078	1091	948
65°	636	633	624	628	638	638
75°	374	357	338	331	339	393
85°	143	141	122	112	115	151
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3072.2	3072.2	3072.2	3072.2	3072.2
2.5°	3072.2	3065.6	3064.1	3075.4	3081.9
5°	3059.1	3052.7	3051.0	3065.6	3072.2
7.5°	3033.2	3028.3	3029.9	3046.1	3054.3
10°	2995.8	2994.2	2997.4	3015.3	3025.0
12.5°	2951.9	2950.4	2956.9	2976.3	2989.4
15°	2893.5	2893.5	2903.3	2929.3	2945.5
17.5°	2823.7	2828.6	2843.2	2869.1	2887.1
20°	2749.0	2753.9	2773.4	2802.6	2823.7
22.5°	2666.2	2672.7	2692.1	2727.9	2745.7
25°	2568.7	2581.8	2604.5	2640.2	2661.3
27.5°	2468.1	2482.8	2503.9	2547.6	2567.2
30°	2357.7	2367.5	2398.3	2438.9	2461.6
32.5°	2240.8	2250.5	2276.5	2325.2	2344.7
35°	2120.7	2130.4	2154.7	2198.6	2221.3
37.5°	1990.7	1998.8	2028.1	2062.2	2086.5
40°	1854.3	1865.7	1885.2	1925.7	1946.9
42.5°	1721.2	1726.1	1747.2	1787.8	1804.0
45°	1584.8	1586.4	1609.2	1641.6	1656.2
47.5°	1443.5	1446.8	1474.4	1493.9	1508.5
50°	1312.0	1313.6	1333.1	1351.0	1367.2
52.5°	1180.5	1180.5	1190.2	1209.7	1230.8
55°	1057.1	1055.4	1060.3	1078.2	1091.2
57.5°	940.1	938.6	945.0	956.4	966.1
60°	826.5	823.3	829.7	836.2	849.2
62.5°	725.8	729.1	721.0	730.7	740.5
65°	636.5	633.3	623.5	628.4	638.1
67.5°	560.2	555.3	539.1	542.4	553.7
70°	490.4	480.7	462.7	462.7	470.9
72.5°	427.1	417.3	394.6	396.2	399.4
75°	373.5	357.3	337.7	331.2	339.3
77.5°	315.0	302.0	284.2	279.3	282.6
80°	259.8	250.1	229.0	222.5	227.3
82.5°	206.2	198.1	173.7	168.9	170.5
85°	142.9	141.2	121.8	112.0	115.3
87.5°	76.3	77.9	63.3	56.9	60.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)