

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: P234112

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-70-A-UNV-L950-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6976.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

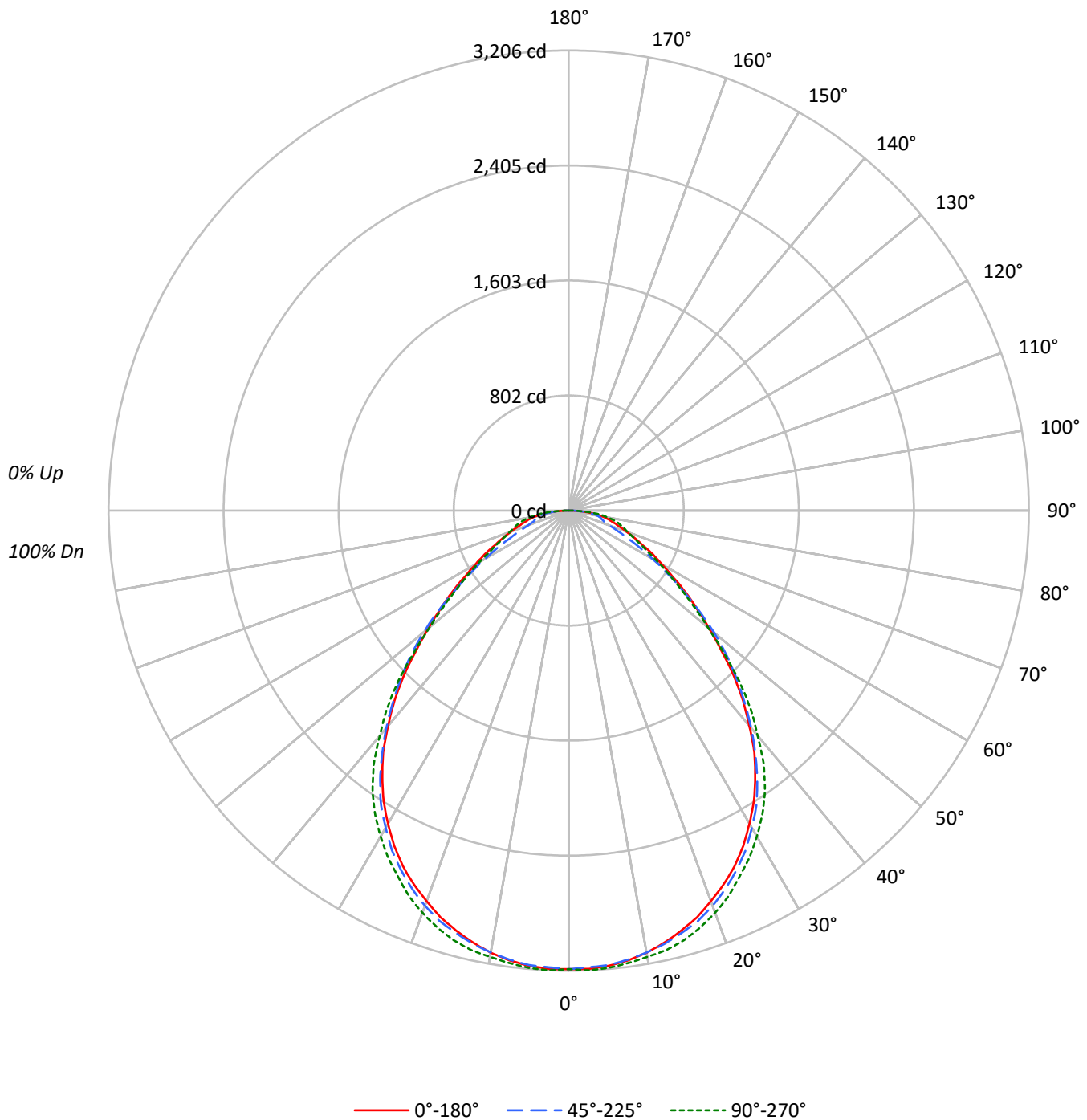
Input Watts (W): 64.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P234112

CATALOG NUMBER: 22GR-LD5-70-A-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P234112

CATALOG NUMBER: 22GR-LD5-70-A-UNV-L950-CD1-U

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	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°	10231	10231	10231
5°	10234	10218	10281
10°	10173	10167	10268
15°	10043	10097	10275
20°	9870	9986	10163
25°	9660	9769	9947
30°	9311	9437	9695
35°	8853	8955	9317
40°	8185	8273	8565
45°	7352	7485	7602
50°	6357	6583	6293
55°	5547	5402	5329
60°	4804	4325	4616
65°	4294	3396	4146
70°	3982	2812	4089
75°	3977	2972	4540
80°	4400	3742	5120
85°	4593	4057	5784



TEST NUMBER: P234112

CATALOG NUMBER: 22GR-LD5-70-A-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	4.3
10°-20°	861.0	12.3
20°-30°	1273.5	18.3
30°-40°	1437.1	20.6
40°-50°	1266.8	18.2
50°-60°	869.0	12.5
60°-70°	512.8	7.4
70°-80°	320.0	4.6
80°-90°	133.4	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°	2436.8	34.9
0°-40°	3873.9	55.5
0°-60°	6009.7	86.1
0°-90°	6976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3195	3195	3195	3195	3195	
5°	3183	3177	3178	3190	3198	302
15°	3029	3032	3045	3083	3099	854
25°	2734	2744	2765	2800	2815	1255
35°	2264	2284	2291	2346	2383	1411
45°	1623	1631	1653	1662	1678	1247
55°	993	969	968	935	954	891
65°	567	498	448	518	547	571
75°	321	289	240	336	367	345
85°	125	117	110	144	157	135
90°	0	0	0	0	0	



TEST NUMBER: P234112

CATALOG NUMBER: 22GR-LD5-70-A-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3194.7	3194.7	3194.7	3194.7	3194.7
2.5°	3196.4	3188.3	3185.0	3198.0	3206.1
5°	3183.4	3176.9	3178.5	3189.9	3198.0
7.5°	3160.6	3155.8	3155.8	3172.0	3180.1
10°	3128.2	3126.6	3126.6	3146.1	3157.4
12.5°	3082.7	3084.4	3090.8	3116.8	3136.3
15°	3029.1	3032.4	3045.4	3082.7	3099.0
17.5°	2970.7	2970.7	2996.7	3025.9	3045.4
20°	2896.1	2900.9	2930.1	2962.6	2982.1
22.5°	2819.7	2827.8	2852.2	2889.5	2907.5
25°	2733.7	2743.5	2764.6	2800.3	2814.9
27.5°	2633.1	2646.0	2668.8	2694.8	2725.6
30°	2517.8	2537.3	2551.9	2587.6	2621.7
32.5°	2400.9	2418.8	2435.0	2472.4	2511.3
35°	2264.5	2284.0	2290.6	2345.7	2383.1
37.5°	2124.9	2133.0	2136.3	2191.6	2232.1
40°	1957.8	1974.0	1978.9	2022.7	2048.7
42.5°	1797.1	1803.5	1813.3	1845.8	1876.6
45°	1623.3	1631.4	1652.6	1662.3	1678.5
47.5°	1441.5	1465.9	1490.2	1459.4	1461.0
50°	1275.9	1295.4	1321.4	1263.0	1263.0
52.5°	1128.2	1138.0	1139.6	1090.9	1100.6
55°	993.4	969.2	967.5	935.0	954.5
57.5°	858.8	826.3	814.9	805.2	827.9
60°	750.0	691.5	675.3	690.0	720.7
62.5°	660.7	586.0	555.2	592.5	620.1
65°	566.6	498.4	448.1	517.9	547.1
67.5°	493.5	428.5	363.6	462.6	483.8
70°	425.3	375.0	300.3	420.4	436.7
72.5°	370.1	331.1	259.7	379.8	399.3
75°	321.4	288.9	240.2	336.1	366.9
77.5°	282.5	246.8	224.0	290.6	327.9
80°	238.6	202.9	202.9	243.5	277.6
82.5°	188.3	159.1	164.0	198.0	222.4
85°	125.0	116.8	110.4	144.5	157.4
87.5°	63.3	65.0	58.4	74.7	76.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)