

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: P234131

Luminaire Tested: **22GR-LD5-70-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-70-A125-UNV-L940-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5983.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

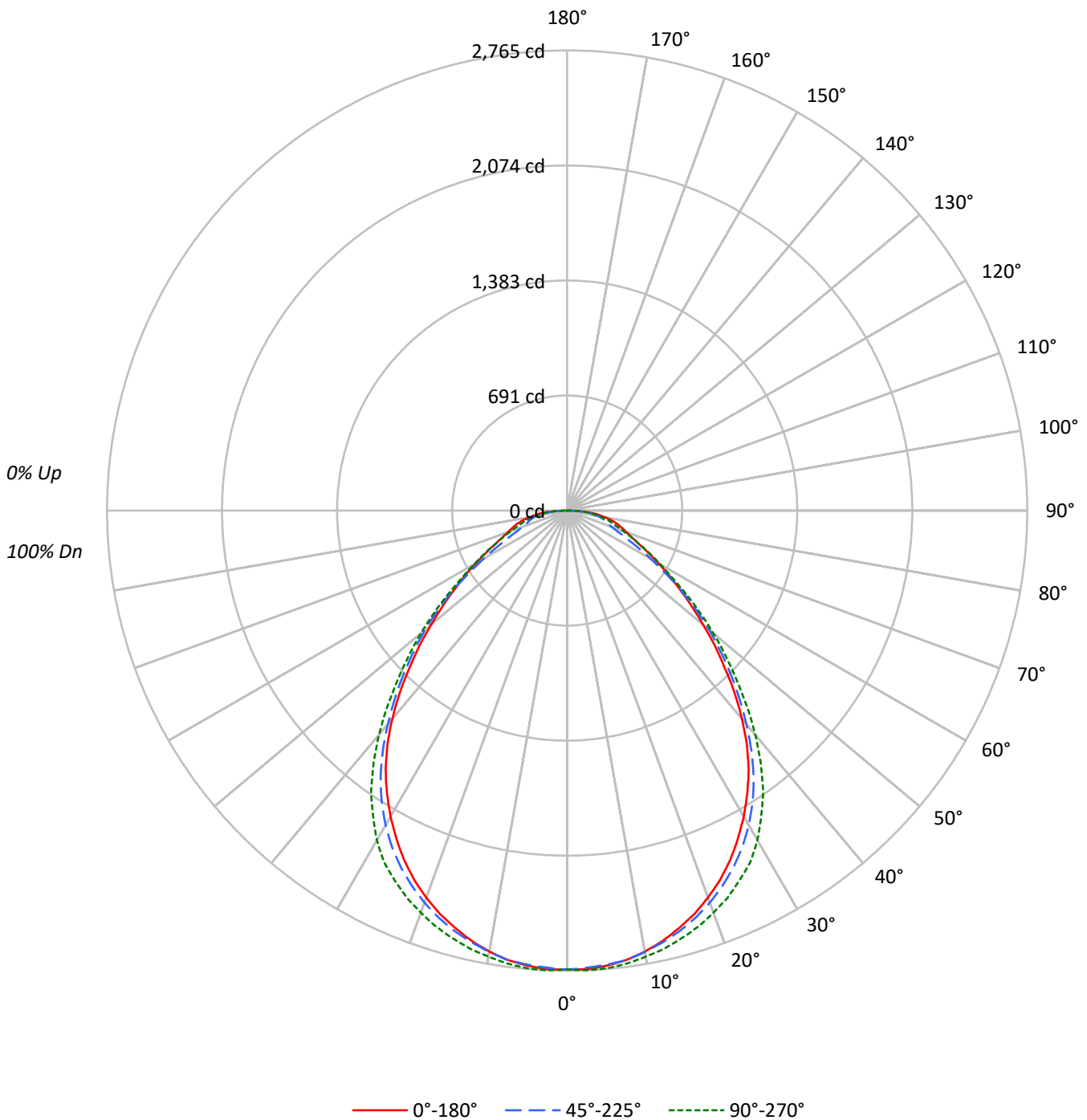
Input Watts (W): 64.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	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	52	46	41	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	34	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	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8832	8832	8832
5°	8825	8803	8875
10°	8751	8760	8850
15°	8612	8672	8820
20°	8434	8543	8762
25°	8188	8355	8661
30°	7846	8068	8455
35°	7434	7641	8028
40°	6835	7004	7354
45°	6072	6293	6520
50°	5303	5546	5713
55°	4611	4673	4845
60°	4056	3717	4137
65°	3605	2970	3626
70°	3540	2639	3344
75°	3865	2900	3418
80°	4244	3449	3653
85°	5074	3998	4101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.6	4.4
10°-20°	739.2	12.4
20°-30°	1091.2	18.2
30°-40°	1221.0	20.4
40°-50°	1072.3	17.9
50°-60°	758.7	12.7
60°-70°	441.6	7.4
70°-80°	275.2	4.6
80°-90°	123.1	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°	2091.0	34.9
0°-40°	3312.0	55.4
0°-60°	5143.0	86.0
0°-90°	5983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2758	2758	2758	2758	2758	
5°	2745	2738	2738	2752	2761	260
15°	2598	2603	2616	2644	2660	732
25°	2317	2327	2364	2420	2451	1064
35°	1901	1910	1954	2013	2053	1182
45°	1341	1356	1389	1423	1440	1037
55°	826	842	837	852	868	746
65°	476	438	392	427	478	482
75°	312	269	234	240	276	326
85°	138	144	109	106	112	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2757.8	2757.8	2757.8	2757.8	2757.8
2.5°	2757.8	2752.3	2749.5	2759.3	2764.8
5°	2745.3	2738.3	2738.3	2752.3	2760.7
7.5°	2723.0	2716.1	2724.4	2737.0	2745.3
10°	2690.9	2688.1	2693.7	2710.5	2721.6
12.5°	2649.1	2650.4	2656.0	2682.5	2696.5
15°	2597.5	2603.0	2615.6	2643.5	2660.2
17.5°	2541.6	2545.9	2565.4	2597.5	2621.2
20°	2474.7	2483.1	2506.8	2547.2	2571.0
22.5°	2400.8	2410.5	2439.8	2488.7	2517.9
25°	2317.1	2326.8	2364.5	2420.3	2451.0
27.5°	2222.2	2237.5	2279.4	2340.7	2382.6
30°	2121.8	2134.3	2181.7	2251.5	2286.4
32.5°	2014.4	2029.7	2074.3	2141.3	2172.0
35°	1901.4	1909.7	1954.4	2012.9	2053.4
37.5°	1773.1	1777.2	1819.1	1873.4	1909.7
40°	1634.9	1637.7	1675.4	1727.0	1759.0
42.5°	1491.2	1492.6	1533.1	1572.2	1600.0
45°	1340.6	1356.0	1389.4	1422.9	1439.6
47.5°	1205.3	1216.4	1247.1	1276.4	1291.7
50°	1064.3	1092.3	1113.2	1128.6	1146.6
52.5°	943.0	966.7	972.3	990.5	1005.8
55°	825.9	842.5	837.0	852.3	867.7
57.5°	726.8	718.4	700.3	726.8	746.3
60°	633.3	611.0	580.3	616.6	645.9
62.5°	549.6	513.3	475.7	512.0	560.8
65°	475.7	438.0	392.0	426.9	478.5
67.5°	419.9	380.8	326.5	361.3	412.9
70°	378.1	337.6	281.8	311.1	357.1
72.5°	344.6	301.3	252.5	272.0	311.1
75°	312.4	269.3	234.4	239.9	276.2
77.5°	274.8	242.7	214.8	212.1	239.9
80°	230.1	220.4	187.0	182.8	198.1
82.5°	189.7	185.5	153.4	149.3	154.8
85°	138.1	143.7	108.8	106.0	111.6
87.5°	72.5	79.6	57.2	59.9	61.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)