

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: P234111

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234111
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-L940-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5993.3 lumens
Efficiency: N/A
Efficacy: 93.4 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

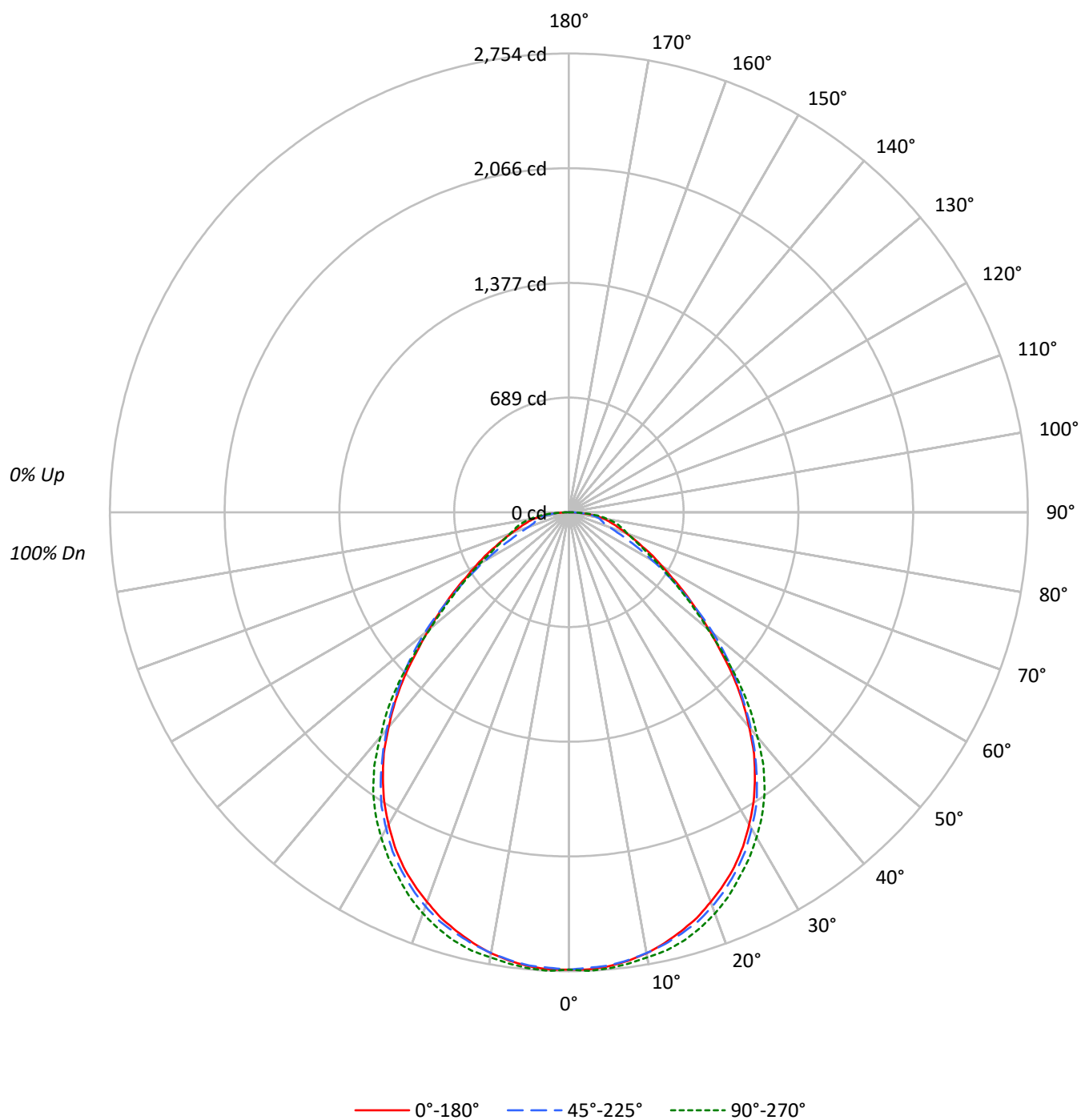
Input Watts (W): 64.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8790	8790	8790
5°	8792	8779	8832
10°	8740	8735	8821
15°	8628	8675	8827
20°	8480	8579	8731
25°	8299	8393	8546
30°	7999	8107	8329
35°	7606	7694	8004
40°	7032	7107	7358
45°	6317	6430	6531
50°	5461	5656	5406
55°	4766	4641	4579
60°	4127	3716	3966
65°	3689	2917	3562
70°	3421	2416	3512
75°	3416	2554	3900
80°	3781	3215	4399
85°	3946	3487	4972



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.7	4.3
10°-20°	739.8	12.3
20°-30°	1094.1	18.3
30°-40°	1234.6	20.6
40°-50°	1088.4	18.2
50°-60°	746.6	12.5
60°-70°	440.6	7.4
70°-80°	274.9	4.6
80°-90°	114.6	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°	2093.6	34.9
0°-40°	3328.2	55.5
0°-60°	5163.2	86.1
0°-90°	5993.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5993.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2745	2745	2745	2745	2745	
5°	2735	2729	2731	2741	2748	260
15°	2602	2605	2616	2648	2662	734
25°	2349	2357	2375	2406	2418	1079
35°	1946	1962	1968	2015	2047	1212
45°	1395	1402	1420	1428	1442	1071
55°	854	833	831	803	820	766
65°	487	428	385	445	470	490
75°	276	248	206	289	315	296
85°	107	100	95	124	135	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2744.7	2744.7	2744.7	2744.7	2744.7
2.5°	2746.2	2739.2	2736.3	2747.5	2754.5
5°	2735.0	2729.4	2730.8	2740.6	2747.5
7.5°	2715.4	2711.2	2711.2	2725.2	2732.2
10°	2687.6	2686.1	2686.1	2702.9	2712.7
12.5°	2648.5	2649.9	2655.5	2677.8	2694.6
15°	2602.4	2605.3	2616.5	2648.5	2662.5
17.5°	2552.3	2552.3	2574.6	2599.7	2616.5
20°	2488.2	2492.3	2517.4	2545.3	2562.0
22.5°	2422.5	2429.5	2450.5	2482.6	2497.9
25°	2348.7	2357.0	2375.1	2405.8	2418.4
27.5°	2262.1	2273.3	2292.8	2315.2	2341.7
30°	2163.2	2179.9	2192.4	2223.1	2252.4
32.5°	2062.7	2078.1	2092.0	2124.1	2157.6
35°	1945.6	1962.3	1967.9	2015.3	2047.4
37.5°	1825.6	1832.6	1835.4	1882.8	1917.7
40°	1682.0	1695.9	1700.1	1737.8	1760.1
42.5°	1543.9	1549.5	1557.9	1585.8	1612.2
45°	1394.7	1401.6	1419.8	1428.1	1442.1
47.5°	1238.5	1259.4	1280.3	1253.8	1255.3
50°	1096.2	1112.9	1135.3	1085.1	1085.1
52.5°	969.3	977.6	979.0	937.2	945.6
55°	853.6	832.7	831.2	803.3	820.1
57.5°	737.8	709.9	700.1	691.8	711.3
60°	644.3	594.2	580.2	592.7	619.2
62.5°	567.6	503.4	477.0	509.0	532.8
65°	486.8	428.2	384.9	444.9	470.0
67.5°	424.0	368.2	312.4	397.5	415.6
70°	365.4	322.2	258.0	361.2	375.1
72.5°	318.0	284.5	223.2	326.4	343.1
75°	276.1	248.3	206.4	288.7	315.2
77.5°	242.7	212.0	192.5	249.7	281.7
80°	205.0	174.3	174.3	209.2	238.5
82.5°	161.8	136.7	140.9	170.2	191.1
85°	107.4	100.4	94.9	124.1	135.3
87.5°	54.4	55.8	50.2	64.2	65.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)