

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 07633

Luminaire Tested: **2G-320A-120V-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 07633
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2G-320A-120V-U
Description: FORMED STEEL HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR,
CLEAR ACRYLIC PRISMATIC LENS.
Light Source: THREE 20 WATT T12 LINEAR FLUORESCENT LAMPS RATED AT 1260 LUMENS
EACH.
SYLVANIA F20T12/CW
Ballast/Driver: ONE ADVANCE RL-2SP20-TP AND ONE ADVANCE LC-14-20-C

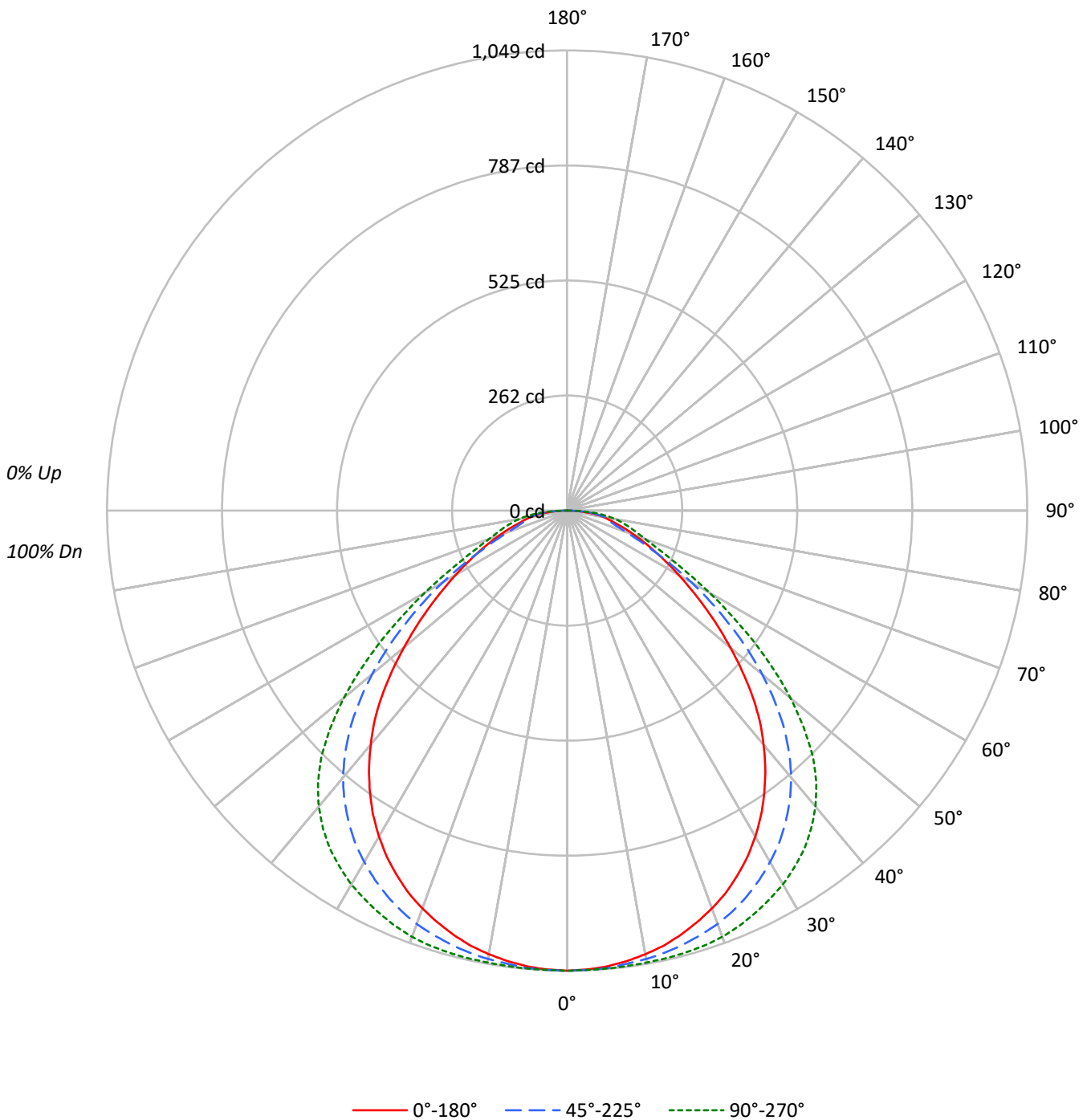
Summary

Lumens per Lamp: 1260 (3 lamps)
Luminaire Lumens: 2727.7 lumens
Efficiency: 72.2%
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.39 / 1.38
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): 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: 07633
CATALOG NUMBER: 2G-320A-120V-U

Luminous Intensity Polar Plot





TEST NUMBER: 07633

CATALOG NUMBER: 2G-320A-120V-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72																			
1	79	76	73	70	77	74	72	69	71	69	67	68	67	65	66	64	63	61																			
2	72	67	62	58	71	65	61	58	63	59	56	61	58	55	58	56	54	52																			
3	66	59	54	49	65	58	53	49	56	52	48	54	50	47	52	49	46	45																			
4	61	53	47	42	59	52	46	42	50	45	41	48	44	41	47	43	40	39																			
5	56	47	41	37	55	47	41	36	45	40	36	44	39	36	42	38	35	34																			
6	52	43	37	32	51	42	36	32	41	36	32	40	35	31	39	34	31	30																			
7	48	39	33	29	47	38	33	28	37	32	28	36	32	28	35	31	28	26																			
8	45	36	30	26	44	35	29	25	34	29	25	33	29	25	32	28	25	24																			
9	42	33	27	23	41	32	27	23	31	26	23	31	26	23	30	26	23	21																			
10	40	30	25	21	39	30	24	21	29	24	21	28	24	21	28	24	21	19																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3485	3485	3485
5°	3478	3492	3495
10°	3465	3502	3529
15°	3443	3522	3587
20°	3412	3546	3656
25°	3365	3556	3713
30°	3292	3549	3775
35°	3180	3520	3821
40°	3023	3448	3821
45°	2805	3284	3721
50°	2507	3003	3437
55°	2213	2612	2995
60°	1947	2173	2492
65°	1737	1706	2044
70°	1583	1379	1836
75°	1489	1335	1900
80°	1607	1645	2124
85°	1677	1906	2402



TEST NUMBER: 07633

CATALOG NUMBER: 2G-320A-120V-U

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	99.6	3.6	2.6	0°	1049	1049	1049	1049	1049	
10°-20°	289.1	10.6	7.6	5°	1043	1045	1047	1047	1048	99
20°-30°	446.0	16.4	11.8	15°	1001	1010	1024	1037	1043	282
30°-40°	540.1	19.8	14.3	25°	918	937	970	1000	1013	422
40°-50°	533.5	19.6	14.1	35°	784	813	868	917	942	489
50°-60°	400.2	14.7	10.6	45°	597	634	699	760	792	458
60°-70°	232.8	8.5	6.2	55°	382	399	451	484	517	344
70°-80°	131.8	4.8	3.5	65°	221	208	217	252	260	222
80°-90°	54.5	2.0	1.4	75°	116	115	104	140	148	126
90°-100°	0.0	0.0	0.0	85°	44	45	50	62	63	47
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	834.7	30.6	22.1							
0°-40°	1374.8	50.4	36.4							
0°-60°	2308.6	84.6	61.1							
0°-90°	2727.7	100.0	72.2							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	2727.7	100.0	72.2							



TEST NUMBER: 07633

CATALOG NUMBER: 2G-320A-120V-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1049	1049	1049	1049	1049
2.5°	1047	1049	1048	1047	1048
5°	1043	1045	1047	1047	1048
7.5°	1036	1039	1042	1045	1047
10°	1027	1031	1038	1044	1046
12.5°	1016	1021	1032	1041	1045
15°	1001	1010	1024	1037	1043
17.5°	984	995	1014	1032	1040
20°	965	978	1003	1024	1034
22.5°	944	960	988	1015	1025
25°	918	937	970	1000	1013
27.5°	890	911	949	983	999
30°	858	881	925	964	984
32.5°	823	849	899	942	964
35°	784	813	868	917	942
37.5°	742	774	834	888	914
40°	697	732	795	852	881
42.5°	650	685	749	810	841
45°	597	634	699	760	792
47.5°	541	577	641	700	731
50°	485	520	581	633	665
52.5°	433	460	517	559	592
55°	382	399	451	484	517
57.5°	335	342	388	417	442
60°	293	291	327	356	375
62.5°	256	245	268	301	312
65°	221	208	217	252	260
67.5°	191	177	175	215	219
70°	163	152	142	186	189
72.5°	139	132	119	162	166
75°	116	115	104	140	148
77.5°	99	98	95	121	129
80°	84	82	86	104	111
82.5°	66	65	72	85	90
85°	44	45	50	62	63
87.5°	21	23	26	31	31
90°	0	0	0	0	0

(END OF REPORT)