

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: FAIL-SAFE

Report Number: BALLABS TEST NO. 9190.0

Luminaire Tested: **CFT-132-120V-CLR-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: BALLABS TEST NO. 9190.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CFT-132-120V-CLR-EB81
Description: 1/32W T8 LAMP 4'TEAR-DROP SURFACE MNT LUMINAIRE
Light Source: -
F32T8/735/RS
Ballast/Driver: ADVANCE BALLAST #REL-1P32-RH-TP

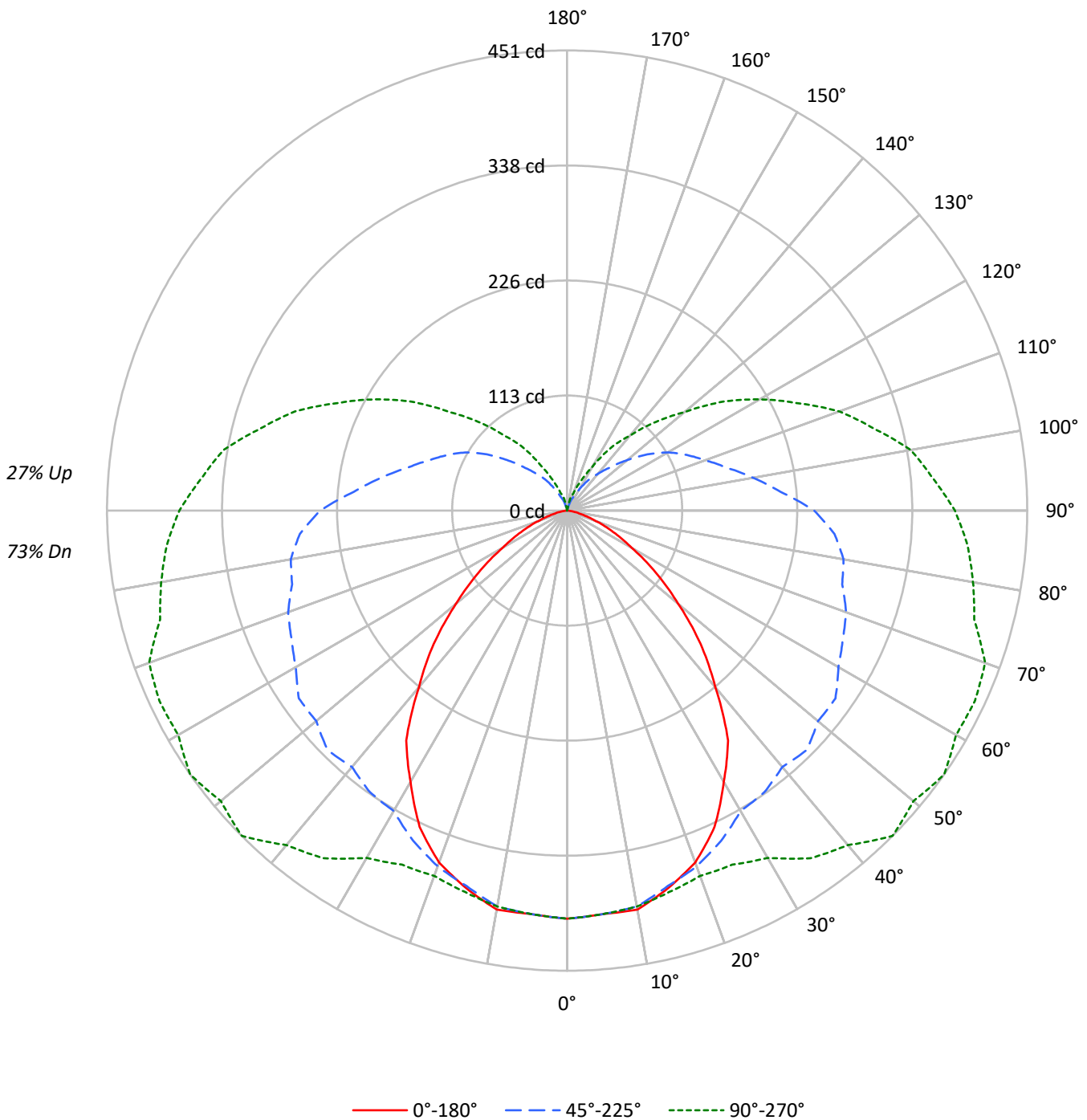
Summary

Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 2497.3 lumens
Efficiency: 87.6%
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.62 / 1.57
Luminous Opening: Rectangular w/ Sides (W: 0.16' x L: 3.98' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 32
Input Voltage (V): NR
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	99	99	99	99	94	94	94	94	84	84	84		76	76	76		68	68	68	64
1	86	80	75	71	81	76	72	67	68	64	61		60	57	55		53	51	49	45
2	77	68	61	55	72	64	58	52	57	52	47		51	47	43		45	41	38	35
3	69	59	51	44	65	55	48	42	49	43	38		44	39	35		39	35	31	28
4	63	51	43	36	59	49	41	35	43	37	32		38	33	29		34	30	26	23
5	58	45	37	31	54	43	35	29	38	32	27		34	29	24		30	26	22	19
6	53	40	32	26	50	38	31	25	34	28	23		31	25	21		27	23	19	17
7	49	36	28	23	46	35	27	22	31	25	20		28	22	18		25	20	17	14
8	45	33	25	20	43	31	24	19	28	22	18		25	20	16		23	18	15	13
9	42	30	23	18	40	29	22	17	26	20	16		23	18	14		21	16	13	11
10	39	28	21	16	37	26	20	15	24	18	14		22	17	13		19	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6936	6936	6936
5°	6873	6265	6061
10°	6914	5745	5409
15°	6762	5199	4861
20°	6621	4792	4441
25°	6357	4409	4194
30°	5932	4053	4087
35°	5576	3910	4150
40°	4860	3735	4132
45°	4269	3739	4250
50°	3564	3603	4107
55°	2941	3619	4146
60°	2283	3503	4042
65°	1808	3468	4079
70°	1297	3483	4091
75°	814	3465	3964
80°	515	3576	3999
85°	232	3619	4058



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	37.8	1.5	1.3	0°	400	400	400	400	400	
10°-20°	108.4	4.3	3.8	5°	397	397	397	397	397	38
20°-30°	165.5	6.6	5.8	15°	383	383	381	385	387	108
30°-40°	213.2	8.5	7.5	25°	342	341	357	373	383	156
40°-50°	250.5	10.0	8.8	35°	275	295	337	391	416	169
50°-60°	268.4	10.7	9.4	45°	185	241	332	420	451	142
60°-70°	271.7	10.9	9.5	55°	106	192	321	416	451	95
70°-80°	262.5	10.5	9.2	65°	50	149	298	404	441	50
80°-90°	245.6	9.8	8.6	75°	15	111	279	381	413	18
90°-100°	212.3	8.5	7.4	85°	2	80	263	361	394	3
100°-110°	170.3	6.8	6.0	90°	0	73	242	345	380	0
110°-120°	126.6	5.1	4.4	95°	0	63	210	321	360	0
120°-130°	84.5	3.4	3.0	105°	0	58	162	265	311	0
130°-140°	47.6	1.9	1.7	115°	0	44	129	210	249	0
140°-150°	23.3	0.9	0.8	125°	0	30	96	157	186	0
150°-160°	7.8	0.3	0.3	135°	0	18	60	103	123	0
160°-170°	1.4	0.1	0.0	145°	0	12	37	63	76	0
170°-180°	0.0	0.0	0.0	155°	0	7	15	27	32	0
0°-30°	311.8	12.5	10.9	165°	0	0	0	12	14	0
0°-40°	524.9	21.0	18.4	175°	0	0	0	0	0	0
0°-60°	1043.8	41.8	36.6	180°	0	0	0	0	0	0
0°-90°	1823.6	73.0	64.0							
90°-120°	509.2	20.4	17.9							
90°-150°	664.6	26.6	23.3							
90°-180°	674.0	27.0	23.6							
0°-180°	2497.3	100.0	87.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400	400	400	400	400
5°	397	397	397	397	397
10°	397	395	394	393	394
15°	383	383	381	385	387
20°	367	364	371	378	381
25°	342	341	357	373	383
30°	307	314	340	374	393
35°	275	295	337	391	416
40°	226	263	328	400	428
45°	185	241	332	420	451
50°	142	213	321	413	443
55°	106	192	321	416	451
60°	73	167	307	404	440
65°	50	149	298	404	441
70°	30	129	291	400	436
75°	15	111	279	381	413
80°	7	94	275	374	404
85°	2	80	263	361	394
90°	0	73	242	345	380
95°	0	63	210	321	360
100°	0	61	185	298	342
105°	0	58	162	265	311
110°	0	53	144	239	284
115°	0	44	129	210	249
120°	0	37	114	185	218
125°	0	30	96	157	186
130°	0	24	77	129	150
135°	0	18	60	103	123
140°	0	14	47	80	96
145°	0	12	37	63	76
150°	0	8	24	41	50
155°	0	7	15	27	32
160°	0	0	10	15	18
165°	0	0	0	12	14
170°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)