

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

REPORT NO. 104448656CRT-001

Test Configuration	Tested Model No.	Pass/Fail/NA
6	FZ-60W-C-G 25 DEG with Trim	NA

Product Description:	High Bay Luminaire
LED Model No.:	Not Provided
Driver Model No.:	Not Provided
Light Source:	LED

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

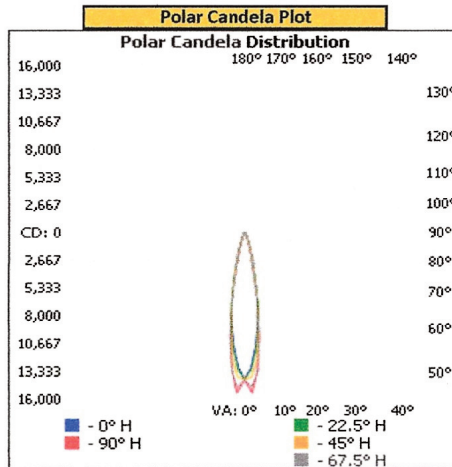
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Up	120.17	418.7	49.95	0.993
	208.15	242.6	49.72	0.985
	240.03	216.7	49.78	0.957
	277.00	200.6	50.01	0.900

Light Output (lm)	Lumen Efficacy (lm/W)
2307.4	46.2

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	14077	14077	14077	14077	14077
5	11007	11336	12373	13319	13202
10	6451	6905	6528	6302	6462
15	2669	2480	2386	2222	1853
20	1144	1060	945	838	680
25	494	417	325	376	584
30	265	208	175	222	364
35	196	133	106	191	286
40	164	119	100	165	231
45	148	114	101	146	186
50	129	104	100	124	139
55	104	92	93	104	109
60	84	79	83	88	88
65	66	66	68	72	73
70	51	51	53	56	56
75	36	36	36	38	38
80	19	19	20	20	20
85	3	3	3	3	4
90	0	0	0	0	0
95	0	0	0	0	0
100	0	0	0	0	0
105	0	0	0	0	0
110	0	0	0	0	0
115	0	0	0	0	0
120	0	0	0	0	0
125	0	0	0	0	0
130	0	0	0	0	0
135	0	0	0	0	0
140	0	0	0	0	0
145	0	0	0	0	0
150	0	0	0	0	0
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

Entire luminous intensity matrix found in .IES file



REPORT NO. 104448656CRT-001

ILLUMINANCE SUMMARY

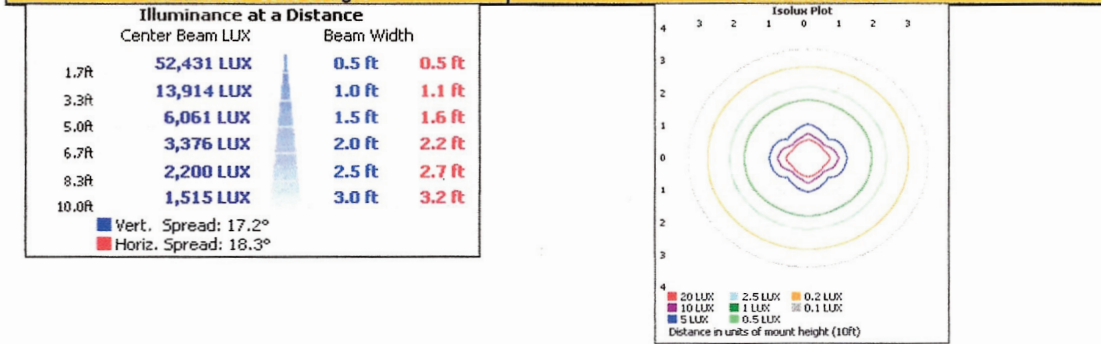
ZONAL LUMENS

Zonal Lumen Summary

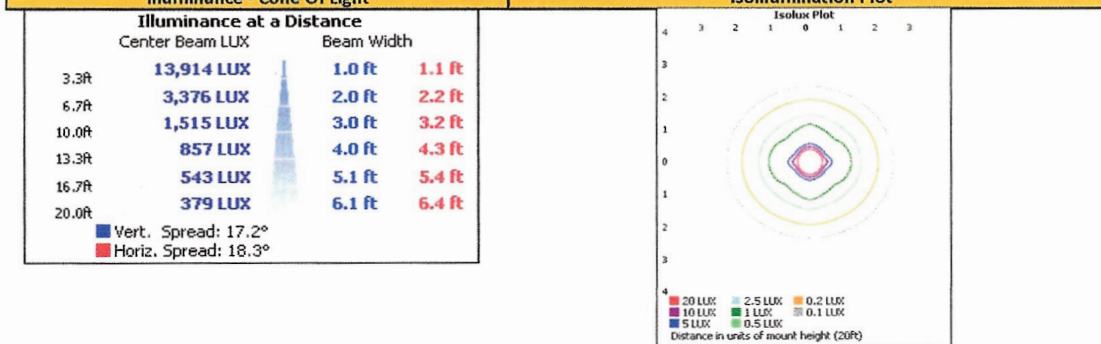
Zone	Lumens	Luminaire
0-30	1,894.8	82.1%
0-40	2,003.7	86.8%
0-60	2,193.9	95.1%
60-90	113.5	4.9%
70-100	45.4	2.0%
90-120	0.0	0.0%
0-90	2,307.4	100.0%
90-180	0.0	0.0%
0-180	2,307.4	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	966.6	41.9%	90-100	0.0	0.0%
10-20	720.0	31.2%	100-110	0.0	0.0%
20-30	208.2	9.0%	110-120	0.0	0.0%
30-40	108.9	4.7%	120-130	0.0	0.0%
40-50	101.4	4.4%	130-140	0.0	0.0%
50-60	88.8	3.8%	140-150	0.0	0.0%
60-70	68.1	3.0%	150-160	0.0	0.0%
70-80	38.7	1.7%	160-170	0.0	0.0%
80-90	6.7	0.3%	170-180	0.0	0.0%

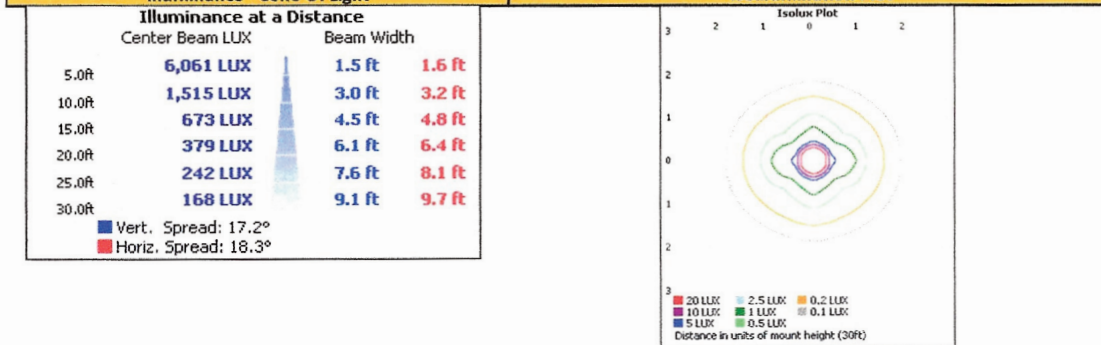
Mounting Height: 10ft



Mounting Height: 20ft



Mounting Height: 30ft



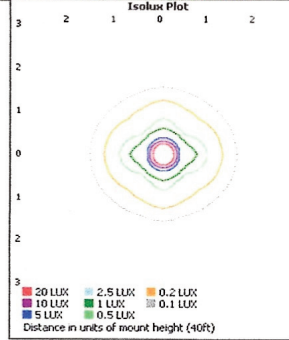
REPORT NO. 104448656CRT-001

Mounting Height: 40ft

Illuminance - Cone Of Light

Illuminance at a Distance			
Center Beam LUX	Beam Width		
6.7ft	3,376 LUX	2.0 ft	2.2 ft
13.3ft	857 LUX	4.0 ft	4.3 ft
20.0ft	379 LUX	6.1 ft	6.4 ft
26.7ft	213 LUX	8.1 ft	8.6 ft
33.3ft	137 LUX	10.1 ft	10.7 ft
40.0ft	94.7 LUX	12.1 ft	12.9 ft

■ Vert. Spread: 17.2°
■ Horiz. Spread: 18.3°

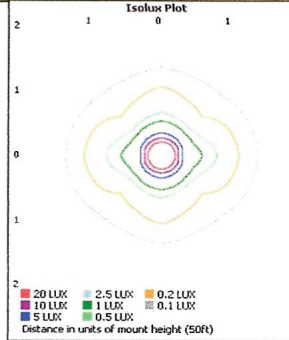


Mounting Height: 50ft

Illuminance - Cone Of Light

Illuminance at a Distance			
Center Beam LUX	Beam Width		
8.3ft	2,200 LUX	2.5 ft	2.7 ft
16.7ft	543 LUX	5.1 ft	5.4 ft
25.0ft	242 LUX	7.6 ft	8.1 ft
33.3ft	137 LUX	10.1 ft	10.7 ft
41.7ft	87.1 LUX	12.6 ft	13.4 ft
50.0ft	60.6 LUX	15.2 ft	16.1 ft

■ Vert. Spread: 17.2°
■ Horiz. Spread: 18.3°

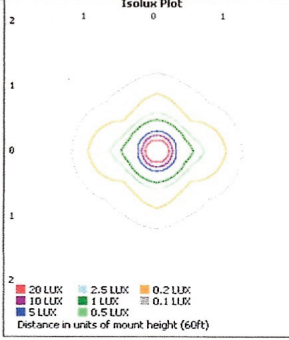


Mounting Height: 60ft

Illuminance - Cone Of Light

Illuminance at a Distance			
Center Beam LUX	Beam Width		
10.0ft	1,515 LUX	3.0 ft	3.2 ft
20.0ft	379 LUX	6.1 ft	6.4 ft
30.0ft	168 LUX	9.1 ft	9.7 ft
40.0ft	94.7 LUX	12.1 ft	12.9 ft
50.0ft	60.6 LUX	15.2 ft	16.1 ft
60.0ft	42.1 LUX	18.2 ft	19.3 ft

■ Vert. Spread: 17.2°
■ Horiz. Spread: 18.3°

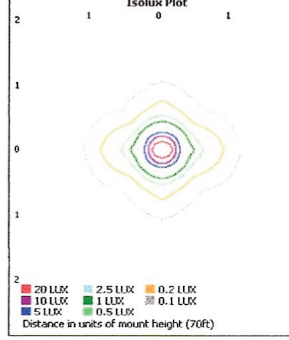


Mounting Height: 70ft

Illuminance - Cone Of Light

Illuminance at a Distance			
Center Beam LUX	Beam Width		
11.7ft	1,107 LUX	3.5 ft	3.8 ft
23.3ft	279 LUX	7.1 ft	7.5 ft
35.0ft	124 LUX	10.6 ft	11.3 ft
46.7ft	69.5 LUX	14.2 ft	15.0 ft
58.3ft	44.6 LUX	17.7 ft	18.8 ft
70.0ft	30.9 LUX	21.2 ft	22.5 ft

■ Vert. Spread: 17.2°
■ Horiz. Spread: 18.3°



REPORT NO. 104448656CRT-001

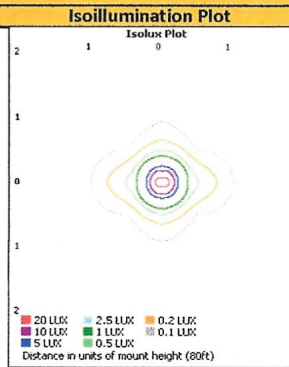
Mounting Height: 80ft

Illuminance - Cone Of Light

Illuminance at a Distance

Center Beam LUX	Beam Width
13.3ft 857 LUX	4.0 ft 4.3 ft
26.7ft 213 LUX	8.1 ft 8.6 ft
40.0ft 94.7 LUX	12.1 ft 12.9 ft
53.3ft 53.3 LUX	16.2 ft 17.2 ft
66.7ft 34.1 LUX	20.2 ft 21.5 ft
80.0ft 23.7 LUX	24.3 ft 25.8 ft

■ Vert. Spread: 17.2°
■ Horiz. Spread: 18.3°



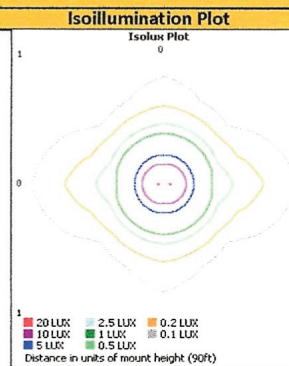
Mounting Height: 90ft

Illuminance - Cone Of Light

Illuminance at a Distance

Center Beam LUX	Beam Width
15.0ft 673 LUX	4.5 ft 4.8 ft
30.0ft 168 LUX	9.1 ft 9.7 ft
45.0ft 74.8 LUX	13.6 ft 14.5 ft
60.0ft 42.1 LUX	18.2 ft 19.3 ft
75.0ft 26.9 LUX	22.7 ft 24.2 ft
90.0ft 18.7 LUX	27.3 ft 29.0 ft

■ Vert. Spread: 17.2°
■ Horiz. Spread: 18.3°



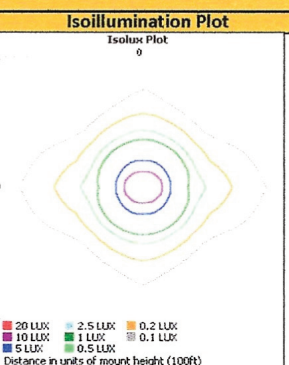
Mounting Height: 100ft

Illuminance - Cone Of Light

Illuminance at a Distance

Center Beam LUX	Beam Width
16.7ft 543 LUX	5.1 ft 5.4 ft
33.3ft 137 LUX	10.1 ft 10.7 ft
50.0ft 60.6 LUX	15.2 ft 16.1 ft
66.7ft 34.1 LUX	20.2 ft 21.5 ft
83.3ft 21.8 LUX	25.3 ft 26.8 ft
100.0ft 15.2 LUX	30.3 ft 32.2 ft

■ Vert. Spread: 17.2°
■ Horiz. Spread: 18.3°



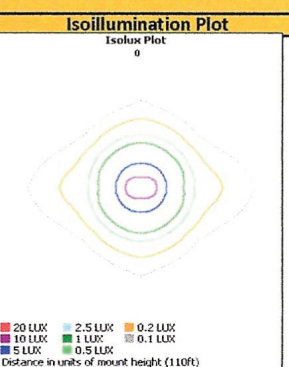
Mounting Height: 110ft

Illuminance - Cone Of Light

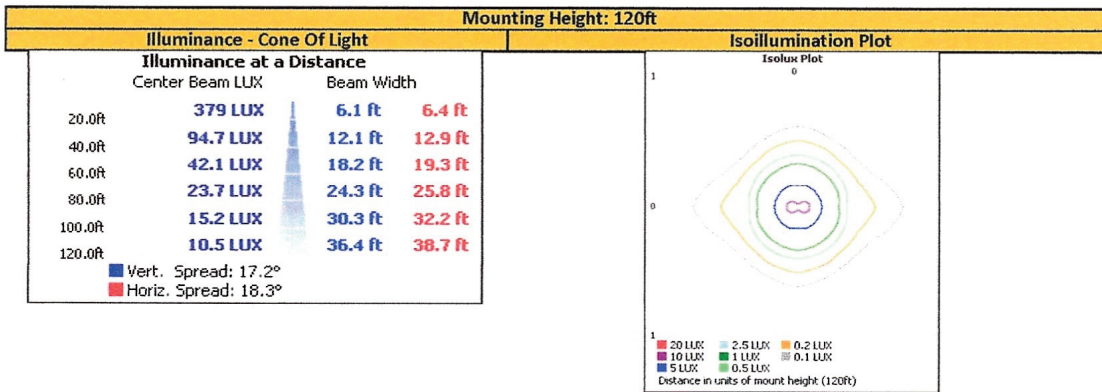
Illuminance at a Distance

Center Beam LUX	Beam Width
18.3ft 452 LUX	5.5 ft 5.9 ft
36.7ft 113 LUX	11.1 ft 11.8 ft
55.0ft 50.1 LUX	16.7 ft 17.7 ft
73.3ft 28.2 LUX	22.2 ft 23.6 ft
91.7ft 18.0 LUX	27.8 ft 29.5 ft
110.0ft 12.5 LUX	33.3 ft 35.4 ft

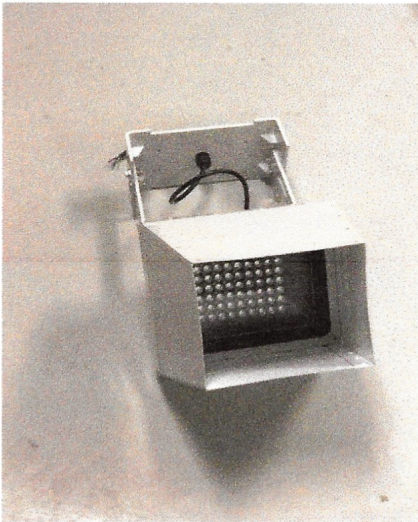
■ Vert. Spread: 17.2°
■ Horiz. Spread: 18.3°



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IMAGE



[<- Back](#)

Product Description

Company: AMERICAN BUSINESS CORPORATION

Product Information: Trade Name(s): ABC123LEDS

LED Fixed Luminaires, Model Nos. FZ-15W may be followed by -C; followed by -2000K, -2200K, -2700K, -3000K, -3500K, -4000K, -4500K, -5000K, -5500K, -5700K, -6000K, -6500K, -G, -B, -R, -Y or -A. FZ-30W may be followed by -C; followed by -2000K, -2200K, -2700K, -3000K, -3500K, -4000K, -4500K, -5000K, -5500K, -5700K, -6000K, -6500K, -G, -B, -R, -Y or -A. FZ-60W may be followed by -C; followed by -2000K, -2200K, -2700K, -3000K, -3500K, -4000K, -4500K, -5000K, -5500K, -5700K, -6000K, -6500K, -G, -B, -R, -Y or -A.

Evaluated to the following: A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Luminaires (UL-1598) and are identified with the ETL Listed Mark.

[<- Back](#)

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