

**TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING**

**REPORT NO. 104448656CRT-001**

Test Configuration	Tested Model No.	Pass/Fail/NA
4	FZ-15W-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)

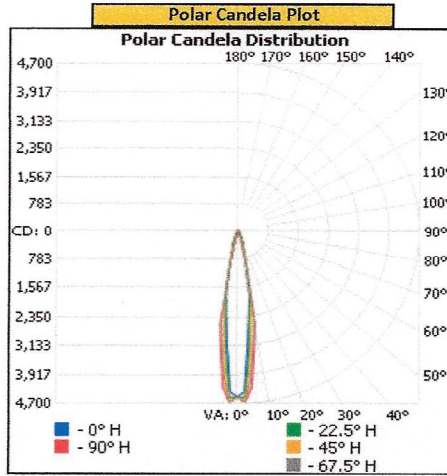
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ( )
Up	120.07	109.3	12.93	0.985
	208.08	69.1	13.22	0.919
	240.07	63.8	13.40	0.875
	277.15	60.9	13.65	0.809

Light Output (lm)	Lumen Efficacy (lm/W)
628.4	48.6

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	4522	4522	4522	4522	4522
5	3097	3368	3728	4009	4278
10	1727	1779	2060	2420	2580
15	602	655	680	392	278
20	342	362	121	21	23
25	154	150	23	45	142
30	66	60	26	82	118
35	52	43	35	54	66
40	47	34	31	42	51
45	38	30	30	35	38
50	31	27	27	28	28
55	25	24	24	24	25
60	21	21	20	21	21
65	17	16	16	16	17
70	13	12	12	12	12
75	8	8	8	8	8
80	4	4	4	4	4
85	0	0	0	0	0
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



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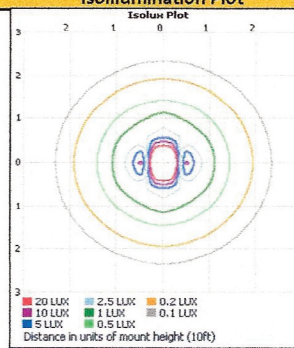
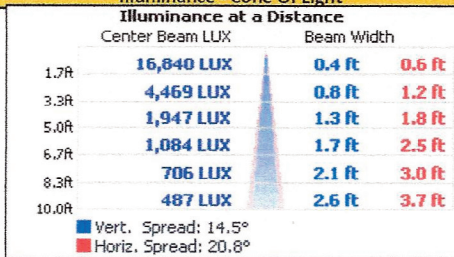
ILLUMINANCE SUMMARY

ZONAL LUMENS

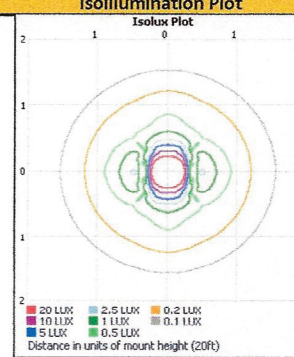
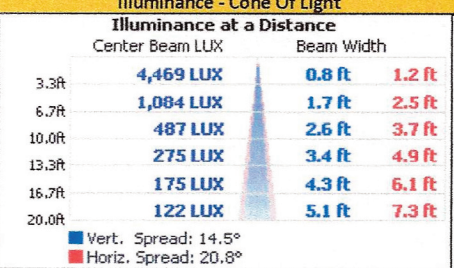
**Zonal Lumen Summary**

Zone	Lumens	Luminaire	Zone	Lumens	Total	Zone	Lumens	Total
0-30	524.7	83.5%	0-10	294.0	46.8%	90-100	0.0	0.0%
0-40	555.1	88.3%	10-20	184.8	29.4%	100-110	0.0	0.0%
0-60	602.5	95.9%	20-30	45.9	7.3%	110-120	0.0	0.0%
60-90	25.9	4.1%	30-40	30.4	4.8%	120-130	0.0	0.0%
70-100	9.5	1.5%	40-50	25.5	4.1%	130-140	0.0	0.0%
90-120	0.0	0.0%	50-60	21.9	3.5%	140-150	0.0	0.0%
0-90	628.4	100.0%	60-70	16.4	2.6%	150-160	0.0	0.0%
90-180	0.0	0.0%	70-80	8.5	1.4%	160-170	0.0	0.0%
0-180	628.4	100.0%	80-90	1.0	0.2%	170-180	0.0	0.0%

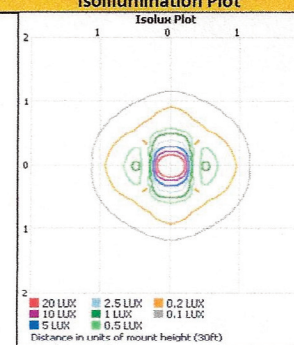
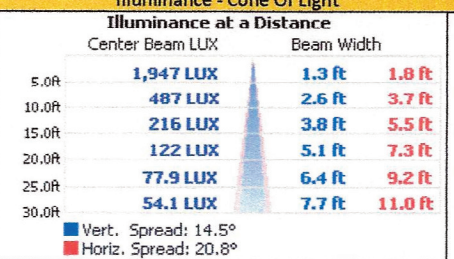
**Mounting Height: 10ft**



**Mounting Height: 20ft**



**Mounting Height: 30ft**



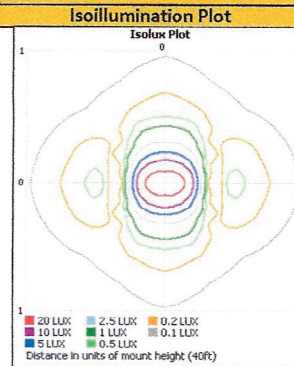
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**Mounting Height: 40ft**

**Illuminance - Cone Of Light**

Illuminance at a Distance		
Center Beam LUX	Beam Width	
6.7ft	<b>1,084 LUX</b>	<b>1.7 ft 2.5 ft</b>
13.3ft	<b>275 LUX</b>	<b>3.4 ft 4.9 ft</b>
20.0ft	<b>122 LUX</b>	<b>5.1 ft 7.3 ft</b>
26.7ft	<b>68.3 LUX</b>	<b>6.8 ft 9.8 ft</b>
33.3ft	<b>43.9 LUX</b>	<b>8.5 ft 12.2 ft</b>
40.0ft	<b>30.4 LUX</b>	<b>10.2 ft 14.6 ft</b>

■ Vert. Spread: 14.5°  
■ Horiz. Spread: 20.8°

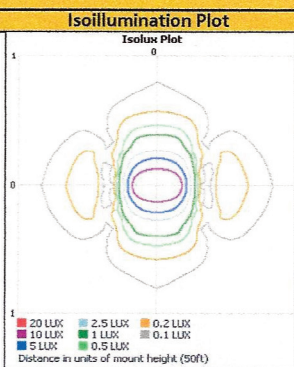


**Mounting Height: 50ft**

**Illuminance - Cone Of Light**

Illuminance at a Distance		
Center Beam LUX	Beam Width	
8.3ft	<b>706 LUX</b>	<b>2.1 ft 3.0 ft</b>
16.7ft	<b>175 LUX</b>	<b>4.3 ft 6.1 ft</b>
25.0ft	<b>77.9 LUX</b>	<b>6.4 ft 9.2 ft</b>
33.3ft	<b>43.9 LUX</b>	<b>8.5 ft 12.2 ft</b>
41.7ft	<b>28.0 LUX</b>	<b>10.6 ft 15.3 ft</b>
50.0ft	<b>19.5 LUX</b>	<b>12.8 ft 18.3 ft</b>

■ Vert. Spread: 14.5°  
■ Horiz. Spread: 20.8°

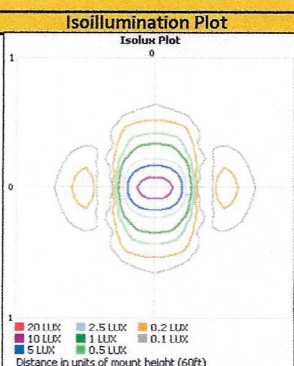


**Mounting Height: 60ft**

**Illuminance - Cone Of Light**

Illuminance at a Distance		
Center Beam LUX	Beam Width	
10.0ft	<b>487 LUX</b>	<b>2.6 ft 3.7 ft</b>
20.0ft	<b>122 LUX</b>	<b>5.1 ft 7.3 ft</b>
30.0ft	<b>54.1 LUX</b>	<b>7.7 ft 11.0 ft</b>
40.0ft	<b>30.4 LUX</b>	<b>10.2 ft 14.6 ft</b>
50.0ft	<b>19.5 LUX</b>	<b>12.8 ft 18.3 ft</b>
60.0ft	<b>13.5 LUX</b>	<b>15.3 ft 22.0 ft</b>

■ Vert. Spread: 14.5°  
■ Horiz. Spread: 20.8°

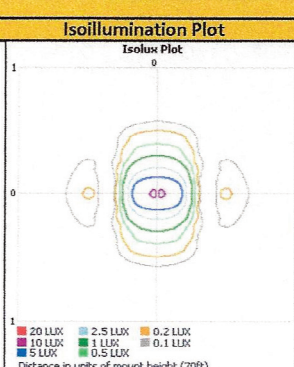


**Mounting Height: 70ft**

**Illuminance - Cone Of Light**

Illuminance at a Distance		
Center Beam LUX	Beam Width	
11.7ft	<b>356 LUX</b>	<b>3.0 ft 4.3 ft</b>
23.3ft	<b>89.6 LUX</b>	<b>5.9 ft 8.5 ft</b>
35.0ft	<b>39.7 LUX</b>	<b>8.9 ft 12.8 ft</b>
46.7ft	<b>22.3 LUX</b>	<b>11.9 ft 17.1 ft</b>
58.3ft	<b>14.3 LUX</b>	<b>14.9 ft 21.3 ft</b>
70.0ft	<b>9.93 LUX</b>	<b>17.9 ft 25.6 ft</b>

■ Vert. Spread: 14.5°  
■ Horiz. Spread: 20.8°



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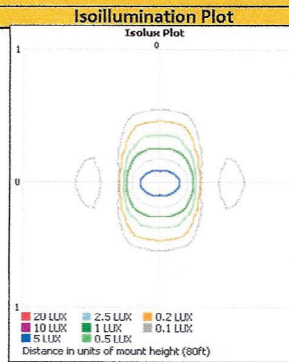
**Mounting Height: 80ft**

**Illuminance - Cone Of Light**

**Illuminance at a Distance**

Center Beam LUX	Beam Width
275 LUX	3.4 ft 4.9 ft
68.3 LUX	6.8 ft 9.8 ft
30.4 LUX	10.2 ft 14.6 ft
17.1 LUX	13.6 ft 19.5 ft
10.9 LUX	17.0 ft 24.4 ft
7.60 LUX	20.4 ft 29.3 ft

■ Vert. Spread: 14.5°  
■ Horiz. Spread: 20.8°



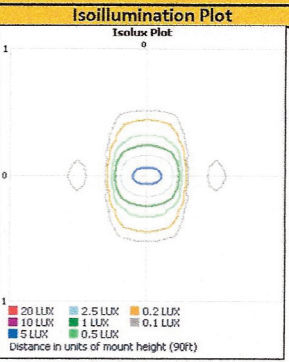
**Mounting Height: 90ft**

**Illuminance - Cone Of Light**

**Illuminance at a Distance**

Center Beam LUX	Beam Width
216 LUX	3.8 ft 5.5 ft
54.1 LUX	7.7 ft 11.0 ft
24.0 LUX	11.5 ft 16.5 ft
13.5 LUX	15.3 ft 22.0 ft
8.65 LUX	19.1 ft 27.5 ft
6.01 LUX	23.0 ft 33.0 ft

■ Vert. Spread: 14.5°  
■ Horiz. Spread: 20.8°



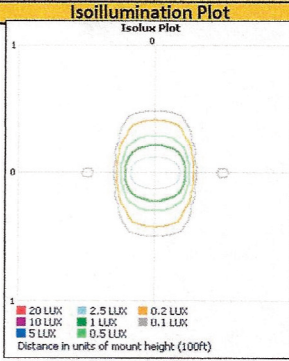
**Mounting Height: 100ft**

**Illuminance - Cone Of Light**

**Illuminance at a Distance**

Center Beam LUX	Beam Width
175 LUX	4.3 ft 6.1 ft
43.9 LUX	8.5 ft 12.2 ft
19.5 LUX	12.8 ft 18.3 ft
10.9 LUX	17.0 ft 24.4 ft
7.01 LUX	21.2 ft 30.5 ft
4.87 LUX	25.5 ft 36.6 ft

■ Vert. Spread: 14.5°  
■ Horiz. Spread: 20.8°



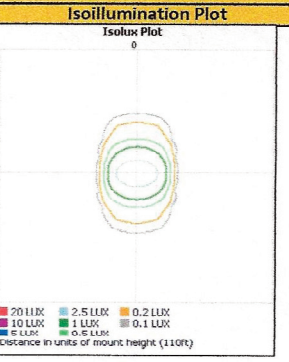
**Mounting Height: 110ft**

**Illuminance - Cone Of Light**

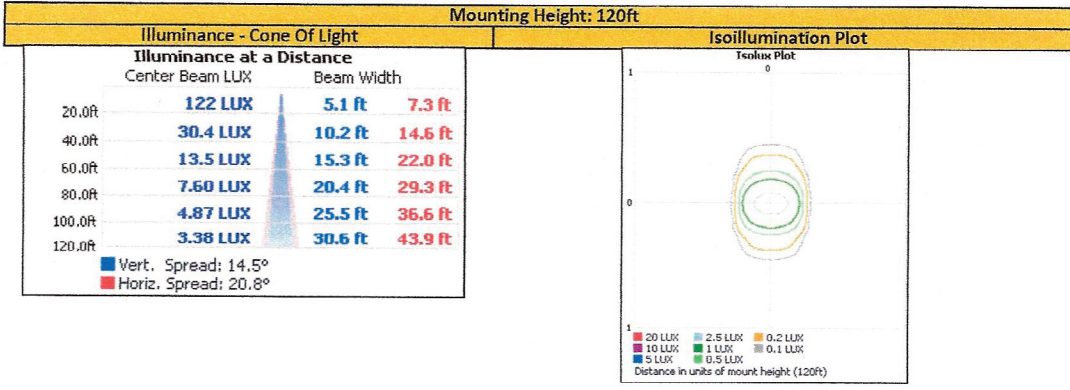
**Illuminance at a Distance**

Center Beam LUX	Beam Width
145 LUX	4.7 ft 6.7 ft
36.1 LUX	9.4 ft 13.4 ft
16.1 LUX	14.0 ft 20.1 ft
9.06 LUX	18.7 ft 26.8 ft
5.79 LUX	23.4 ft 33.6 ft
4.02 LUX	28.1 ft 40.3 ft

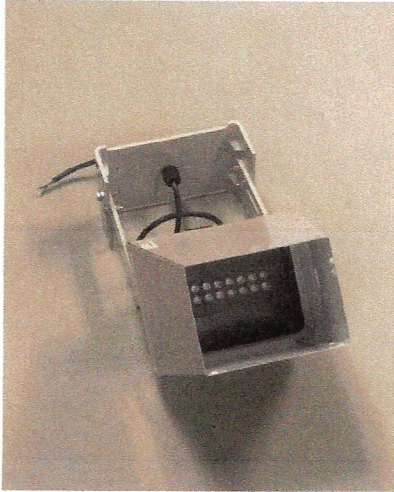
■ Vert. Spread: 14.5°  
■ Horiz. Spread: 20.8°



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IMAGE



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## Product Description

**Company:** AMERCAN 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.

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